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Shantung Christian University
Bulletin 1923-1926

SHANTUNG

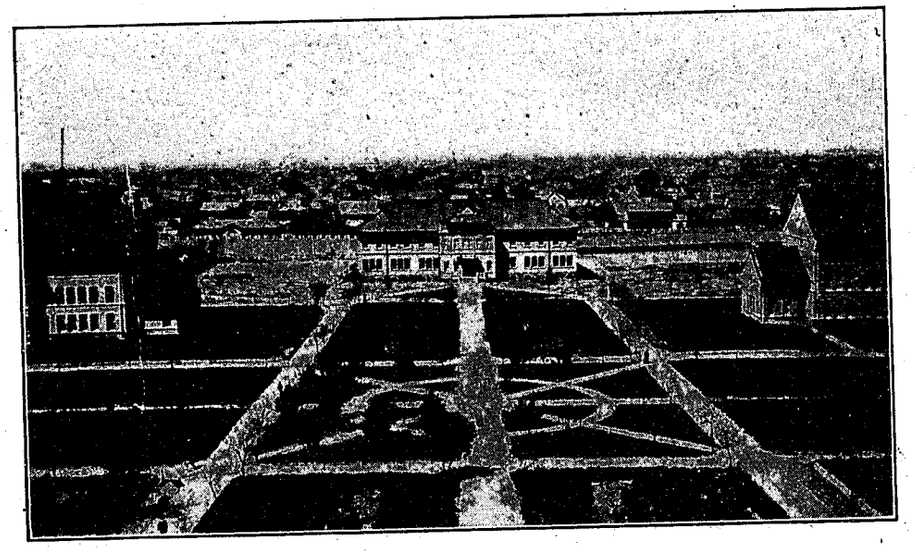
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SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

SCHOOL OF MEDICINE

1923 - 1924



UNIVERSITY CAMPUS

BULLETIN No. 37

Printed at The University Press

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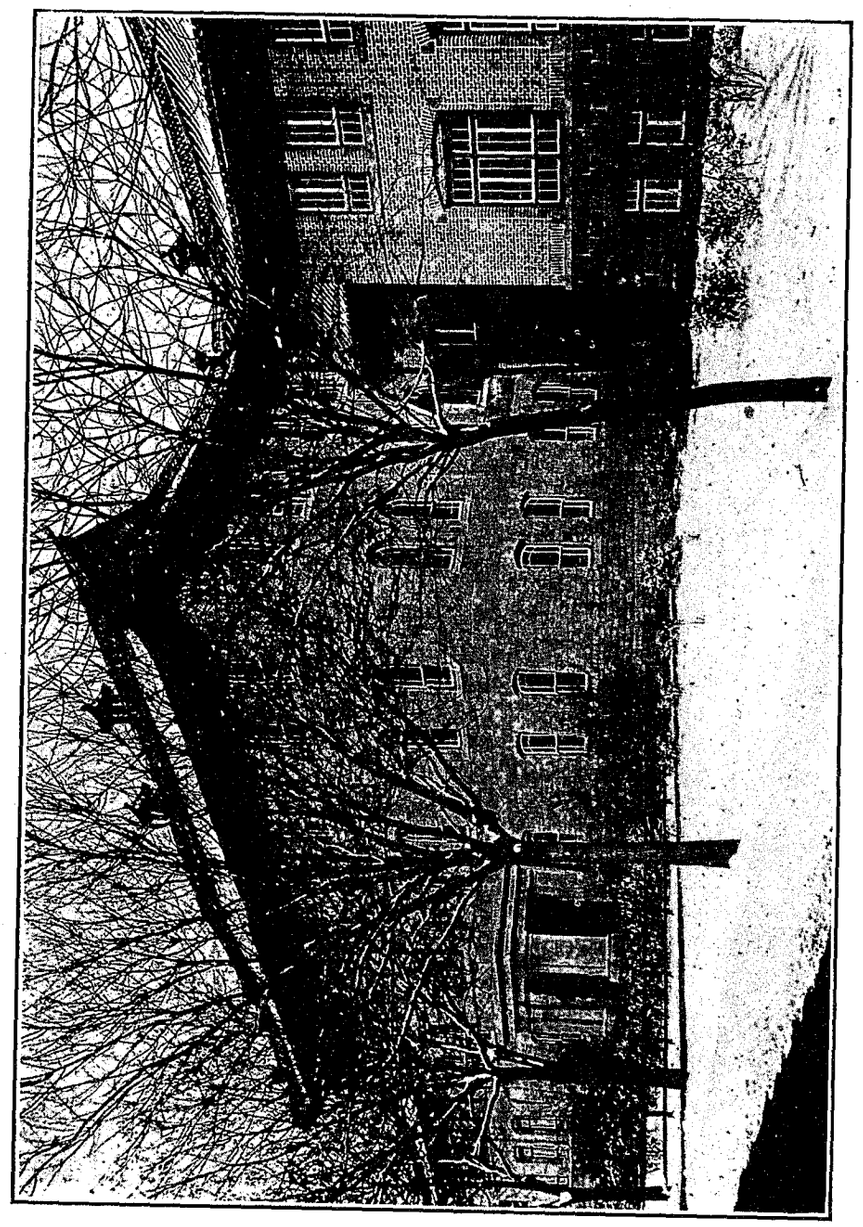
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SCHOOL OF MEDICINE

School of Medicine Calendar for 1923-24-25

1923	
December 24th, 25th, 26th	Christmas Holidays
1924	
January 1st, Tuesday	New Year's Holiday
January 16th, Wednesday	Autumn Semester closes
February 9th, Saturday	Spring Semester opens Registration and Payment of Fees
February 11th, Monday	Recitations begin
April 4, 5, 6,, Fri. Sat. Sun.	Tsing Ming Holidays
April 18th	Good Friday
June 7th, Saturday	Last day for receiving applications for Entrance Examinations
June 12th, Thursday	Spring Semester closes Commencement Exercises, 10 a.m.
July 7th, 8th, 9th, 10th	Entrance Examinations
September 11th, Thursday	Autumn Semester opens. Registration and payment of Fees, all Schools
September 12th, Friday	Recitations begin
September 25th, Thursday	Birthday of Confucius
October 10th, 11th, Fri. Sat.	National Holiday
December 24th, 25th, 26th	Christmas Holidays
1925	
January 1st, Thursday	New Year's Holiday
January 14th, Wednesday	Fall Semester closes
Jan. 25th,26th,27th, Sun.Mon,Tues.	Chinese New Year
February 5th, Thursday	Spring Semester opens Registration and Payment of Fees, all Schools
February 6th, Friday	Recitations begin
April 4th, 5th, 6th, Sat., Sun., Mon.	Tsing Ming Holidays
April 10th,	Good Friday
April 25th, Saturday	Field Day
June 6th, Saturday	Last day for receiving applications for Entrance Examinations

June 11th, Thursday	Spring Semester closes. Commencement Exercises 10 a.m.
July 6th, 7th, 8th, 9th	Entrance Examinations
September 17th, Thursday	Fall Semester opens
	Registration and Payment of Fees, all Schools

SCHOOL OF MEDICINE
FACULTY AND INSTRUCTORS

HAROLD BALME, F. R. C. S. (Eng.), D. P. H. (Lond.), *President of the Shantung Christian University.* Surgery.

SAMUEL COCHRAN, A. B. (Princeton), M. D. (Columbia), *Dean of the School of Medicine.* Bacteriology.

EDWIN ROBERT WHEELER, M. B., B. S. (Lond.), F. R. C. S., (Eng.) *Superintendent of the University Hospital.* Surgery.

LOUIS HENRY BRAAFLADT, Ph. D., M. D. (Chicago Univ.), Pathology.

CHI HSIEN CHANG, Graduate in Medicine of Shantung Christian University, Assistant Instructor in Bacteriology.

JOHN STANLEY ELLIS, M. A. (Cantab.), M. R. C. S., L. R. C. P., Radiology and Electrotherapeutics

†DAVID J. EVANS, M. B., B. S., (Birmingham), Surgery, Otology, Rhinology, Laryngology.

PHILIP SAFFERY EVANS, Jr., B. A. (Yale), M. D. (Johns Hopkins), Physiology.

CHUNG-HSIN HAN, Graduate in Medicine, Shantung Christian University, Diploma Hygiene (Cantab.), D. T. M. H. (Eng.), Instructor in Public Health.

FRANCES J. HEATH, A. B. (Temple University), M.D. (Women's Medical College of Pennsylvania), Gynecology and Obstetrics.

LEROY F. HEIMBURGER, M.D., (Univ. of St. Louis), Dermatology and Venereal Diseases.

PAO-CHANG HOU, M.D., Graduate in Medicine, Shantung Christian University, Registered Physician (Department of Interior), Assistant Instructor in Pathology.

LAURENCE MANSFIELD INGLE, B.A., M.B., Ch.B., (Cantab.), Anatomy.

PETER C. KIANG, A. B. (St. Johns), M. D. (Univ. of Penn.), Biological Chemistry.

ELIZA E. LEONARD, A.B. (Parsons College), M.D. (Michigan), Anatomy.

CHARLES TITTERTON MAITLAND, M.D., B.S., B.Sc. (Lond.), D. P. H., Preventive Medicine & Tropical Diseases.

*PERCY LONSDALE McALL, B.A. (Cantab.), M.B., Ch.B. (Edin.), Translation Work.

*WILLIAM McCLURE, B.A., M.D., C.M. (McGill), Internal Medicine.

JULIA MORGAN, A.B., M.A. (Dickinson College), M.D. (Univ. of Penn.), Medicine.

FRANCIS HENRY MOSSE, M.A. (Oxon.), M. R. C. P. (Lond.), Internal Medicine.

‡TA-CHIH PA, M.D., Graduate in Medicine, Peking Union Medical College, Instructor in Ophthalmology.

WILLIAM PERCY PAILING, Ph. C., M. P. S., B. D. (Lond.), Pharmacy, Materia Medica.

ANNIE V. SCOTT, B. S. (Univ. N. Carolina), M.D. (Women's Med. Coll. of Penn), Pediatrics.

RANDOLPH TUCKER SHIELDS, B.A. (Washington & Lee), M.D. (Med. Coll. Virginia.) Histology, Embryology & Parasitology.

*THORNTON STEARNS, B. A. (Davidson), M. D. (Johns Hopkins), Surgery.

ERNEST B. STRUTHERS, B.A., M.B. (Toronto), Internal Medicine.

SUSAN SHARPE WADDELL, A.B. (Wilson College), M.D. (Univ. of Pittsburg), Physiology.

‡HWEI-WEN WANG, Graduate in Medicine, Shantung Christian University, Instructor in Anatomy.

HENRY W. S. WRIGHT, M. B., M. S. (Lond.), F. R. C. S. (Eng.), Surgery and Urology.

HELENA R. WRIGHT, M. B., B. S. (Lond.), M. R. C. S., (Eng.), Gynecology.

FU-HSIN YU, Assistant, Clinical Laboratory.

PIN YEN, Assistant, Clinical Laboratory.

PAO-HO HSU, Demonstrator in Biological Chemistry.

*On furlough 1923-24
†Engaged in Language Study
‡On leave at Peking Union Medical School

INTRODUCTION

The School of Medicine of the Shantung Christian University was established in 1909 by the English Baptist Mission and the American Presbyterian Mission North, the original buildings and hospital being erected from funds contributed by the English Baptist Mission, and the institution being known at that time as the Union Medical College. To this college the China Medical Board, in the year 1916, transferred three classes of students from the former Peking Union Medical College, at the same time making a grant of $50,000 for further buildings and equipment, and an annual subsidy of $20,000 for five years towards the expense of upkeep.

In 1916-1917, on the recommendation of the Council of Medical Education of the China Medical Missionary Association, the Medical Department of the University of Nanking and the Hankow Medical College also transferred their students to Tsinan, together with some of their professors, so that the present School of Medicine now represents an amalgamtion of the above institutions.

During the present academic year of 1923-24 a union is being effected between this school and the North China Union Medical College for Women. In September 1923 women students were admitted to the entering class of the Medical School and into both classes in the Pre-medical. In February, two other classes will be transferred from Peking to Tsinan. Five members of the Faculty of the Union Medical School for Women will be combined with the Faculty of the Medical Department of the Shantung Christian University to form a common body.

The administration of the School is in the hands of the Boards of Directors of the Shantung Christian University, consisting of the British Joint Board, the North American Joint Board and the Ficld Board of Managers, each being composed of representatives of the co-operating Missions, together with certain educational experts specially co-opted. Eleven Missions are now co-operating in the School, to a greater or less degree, five being English, five American and one Canadian. These Missions are the following:—

English: Baptist Missionary Society.
Society for the Propagation of the Gospel.
London Missionary Society.
Wesleyan Missionary Society.
English Presbyterian Mission. (Partial co-operation only).

American: American Presbyterian Mission, North.
American Presbyterian Mission, South.
American Methodist Mission, North.
Lutheran United Mission.
Womens Foreign Missionary Society of the Methodist Church North.

Canadian: Canadian Presbyterian Mission.

The internal administration of the School is in the hands of the Dean and Faculty.

GENERAL STATEMENT

The School of Medicine is situated on the Medical Campus in the South Suburb of Tsinan, adjoining the general University Campus, from which it is only separated by the suburb wall.

The main school building consists of a large three story central block, with east and west laboratory wings. In addition to class-rooms, the building contains large well-lighted laboratories devoted to Biological Chemistry, Pharmacy and Pharmacology, Histology and Embryology, Pathology and Bacteriology, and the Department of Anatomy and Dissection. A special laboratory is set apart for the routine examination of specimens from patients in the hospital. The medical branch of the University Library, containing reference books and an adequate assortment of current periodicals, is lodged in the central medical building. The Laboratory of Physiology and the offices of the Department of Preventive Medicine are accomodated on the main University campus outside the suburb.

Adjoining the School of Medicine is the University Hospital and Dispensary, with a frontage of 400 feet. The Hospital, which was erected in 1915, provides accomodation for 105 patients. The Out-patient Dispensary consists of central waiting room with consulting rooms for the different departments and a laboratory for routine examinations,

and operating rooms for surgical and ophthalmic out-patients. The Department of Roentgenology is also situated in this building.

Opposite the Hospital is a Hostel for twenty five male patients, for the accomodation of those well enough to be discharged from the wards but needing further treatment.

The School of Medicine possesses dormitories and a students' commons for the men students, adjoining the teaching buildings. The women students will be lodged on the University Campus outside the Suburb wall in a building now being erected, containing sleeping rooms, study hall, social room and dining room. It is equipped with modern plumbing and lighted by electricity.

Besides the above buildings, residences are provided for the members of the staff.

In addition to the Medical School there is, connected with the Hospital, a Nursing School for both men and women nurses. The nurses are lodged outside the hospital in well equipped dormitories. Inquiries in regard to the Nurses' Course may be addressed to

The Superintendent of Nurses,
University Hospital,
Shantung Christian University,
Tsinan.

ADMISSION TO SCHOOL OF MEDICINE

For admission to the Medical School the following qualifications are required:—

(a) The candidate must have graduated from a Middle School or done equivalent work. The ground covered should include:- Chinese History and Literature, based on the work of the higher primary and middle school courses. English, four years; General History; Mathematics, including Arithmetic, Algebra, including Quadratie Equations, Plane and Solid Geometry; Science, including General Science and elementary Physics and Chemistry.

(b) Following graduation from Middle School the candidate must have done two years work in a recognised institution of college grade, including a minimum amount of work in the various subjects as shown by the schedule of Entrance Requirements included below.

These courses may be taken in the Pre-medical Department of the Shantung Christian Univeriity. Full details of this course may be obtanied by application to the Dean of the School of Arts and Science. Entrance to this pre-medical course is by the General Matriculation Examination. Inquiries in regard the General Matriculation Examination should be addressed to the Registrar.

The Pre-medical course of study may also be taken in other institutions of suitable grade, provided the requisite amount of laboratory work is devoted to each subject. In all cases, however, graduates of Pre-medical courses, *either of this or other Universities*, will be required to present themselves for the entrance examination of the School of Medicine at the conclusion of the Pre-medical work.

Entrance examinations are held in July of each year. Previous to the time of taking the Entrance Examination, a formal application for examination and a Medical Certificate must be filed with the Registrar of the University. The forms for these may be had on application to the Registrar's office. For dates of examination and filing applications see the calendar on page 1. Except in the case of students claiming advanced standing, no student will be admitted later than two weeks after the opening of college in September.

The examinations are held in Tsinan, but arrangements may be made for examination at other places if the number of candidates warrants it.

Men and women students are admitted to the school on the same terms.

To be admitted to the examination a candidate must (1) bring evidence that he has graduated from an approved Middle School or has done equivalent work; (2) bring evidence from the college where the pre-medical work was done as to good character, and that the subjects specified below have been covered; this should include the courses studied, the time occupied in each subject and the grades secured; (3) submit laboratory note-books, signed by the instructor, for the Biology, Chemistry and Physics courses.

ENTRANCE REQUIREMENTS

Biology: One paper.

Pre-requisite: At least one year of college grade work in General Biology and a year's work in General Zoology. Tnis should include not less than four *credit hours of recitation and lecture and of six actual hours of laboratory and field work a week, for the two years.

*A 'credit hour' is one hour a week in recitation of lecture or two hours a week in laboratory over a term of sixteen weeks.

Thc work as conducted at Shantung Christian University is based on:

First Year: Shull, Principles of Animal Biology, McGraw Hill Book Co.
Woodruff, Foundation of Biology, Macmillan Co.

Second Year: Thomson's Outlines of Zoology, Hodder and Stoughton.
Reese, Introducfion to Vertebrate Embryology, Frog only. G. P. Putnam. Translation: Presb. Mission Press.
Pratt, Vertebrate Zoology, [Sections on the dogfish, frog, turtle, bird and mammal, especially the latter.] Ginn & Co.

Physics: One paper.

Pre-requisite: A course of general physics of college grade extending over a period of at least two hundred and fifty hours. Of this a minimum of one hundred and twenty-five hours must be spent in the laboratory, doing individual work and receiving individual instruction.

In general, it is suggested that the work covered in the laboratory should follow Millikan's "Mechanics, Molecular Physics and Heat" and Millikan and Mill's "Electricity, Light and Sound".

For general reading and lectures, Kimball's "Coll ege Physics" and Millikan and Gale's "First Course in Physics" is suggested.

Chemistry: One paper.

Pre-requisite: Four terms of laboratory work, covering General Chemistry, Qualitative and Quantitative Analysis, Organic Chemistry. The aim of the work in Chemistry should be to train the student to think in terms of modern chemical concepts and to familiarize him with methods of laboratory study.

The total requirement in Chemistry is reckoned as a minimum of 450 hours work. It is suggested the Pre-medical Chemistry pursue the method and cover the ground represented in the following texts:—

McPherson and Henderson: General Chemistry.
McPherson and Henderson: Laboratory Manual.
Noyes: Qualitative Chemical Analysis (metals only).
Chapin: Second Year College Chemistry.
Chapin: Exercises in Second Year Chemistry.
Talbot: Quantitative Chemical Analysis (selections from this text).
Cohen: Theoretical Organic Chemistry.
Fisher: Laboratory Manual of Organic Chemistry (shorter course).

Psychology: One paper.

Pre-requisite: Lectures, one course equivalent to four semester hours.

Examination Syllabus: Based on Buell's "Essentials of Psychology" or its equivalent.

Chinese. Students are expected to have studied Mei Dzi 墨子 and Chinese Composition (Mandarin).

One examination will be held in Wen Li Composition which paper will be set to test their fluency and neatness in the literary style. Compositions must contain at least three hundred and fifty characters and the subject will be selected from the work studies as stated above.

English Requirements. A student should have school credits for six full years of English study. The examination is a test of his ability to use English correctly rather than a test of his knowledge of the rules of grammar, composition, etc.

A Physical Examination is required of all applicants for admission, and admission may be refused on the basis of ill health. Provision is made for the medical care of students during their residence in the school.

ADVANCED STANDING

At the discretion of the Faculty, students from other medical schools of recognized standing will be received into the upper classes of the Medical School upon the following conditions:—

1. That they present evidence of having fulfilled the entrance requirements, and of having spent as many years in medical study as they desire credit for.

2. That they pass examinations in the subjects for which they desire advanced standing.

COURSE OF STUDY - SCHOOL OF MEDICINE

Instruction is given in Mandarin. The course of study in the School of Medicine covers a period of five years. Each year is divided into two semesters of sixteen teaching weeks each. The following is the curriculum.

FIRST YEAR

First Semester	Hours	*Second Semester*	Hours
Histology	140	Histology	70
Anatomy	170	Embryology	70
Biological Chemistry	170	Anatomy	170
English	80	Physiology	32
		Bacteriology	140
		English	80

SECOND YEAR

First Semester	Hours	*Second Semester*	Hours
Anatomy	140	Anatomy	80
Physiology	160	Physiology	180
Materia Medica	48	Pathology	180
Pharmacy	130	Materia Medica	64
English	80	English	80

THIRD YEAR

First Semester	Hours	*Second Semester*	Hours
Pathology 1	32	Medicine 2	80
Medicine 1	80	Laboratory Diagnosis 2	64
Therapeutics	94	Surgery 2	80
Physical Diagnosis	64	Obstetrics 1	48
Laboratory Diagnosis and Parasitology 1	170	Clinical Medicine 1, and Clinical Surgery 1 (in groups)	208
Surgery 1	80		
English	80	English	80

FOURTH YEAR

First Semester	Hours	*Second Semester*	Hours
Medicine 3	64	Medicine 4	64
Surgery 3	80	Surgery 4	80
Obstetrics 2	48	Ophthalmology 2	64
Ophthalmology 1	64	Dermatology and Syphilology 2	32
Dermatology and Syphilology 1	32	Pediatrics	48
Clinical Medicine 2, Clinical Surgery 2 and Specialties (in groups)	192	Clinical Medicine 3, Clinicial Surgery 3 and Specialties (in groups)	192
English	80	English	80

FIFTH YEAR

First Semester	Hours	*Second Semester*	Hours
Clinical Medicine 4, Clinical Surgery 4 and Specialties (in groups)	288	Clinical Medicine 5, Clinical Surgery 5 and Specialties (in groups)	288
Pathology 2	64	Pathology 3	64
Preventive Medicine 1	32	Preventive Medicine 2	32
Nervous and Mental Diseases 1	16	Nervous and Mental Diseases 2	16
Gynecology 1	16	Gynecology 2	16
Operative Surgery	32	Anesthetics	16
Diseases of Ear, Nose, Throat 1	16	Medical Jurisprudence	8
English		Diseases of Ear, Nose, and Throat 2	16
		English	

PRIZES

Doggart Prize. From funds contributed by Mr. A. R. Doggart of Darlington, England, a prize of $60 each year is awarded to the member of the second year class whose marks are highest for the first two years of the course, and $40 to the student whose marks are second highest.

FEES AND REGULATIONS

Each student, during his five years' residence in the School of Medicine, is required to pay the following fees:—

Tuition	$30 per semester
Athletic Fee	$ 2 per semester
Dormitory Fee	$ 4 per semester
Breakage Deposit	$ 5 annually, payable in September.

The Field Board of Managers of the Shantung Christian University retain the right to raise the fees at any time at their discretion.

These fees do not include board, books, travel, etc. Board costs in Tsinan, at present rates, about six dollars a month, so it is estimated that, apart from travel, it will cost each student approximately one hundred and sixty dollars per year for all expenses, including tuition, board, books and incidentals.

Dormitories are furnished for the students, also kitchen and dining room accomodations. The students eat at the Commons, managed by themselves. All students will be expected to room in the dormitories.

All inquiries and requests for further information regarding the School of Medicine should be addressed to

THE DEAN
SCHOOL OF MEDICINE
SHANTUNG CHRISTIAN UNIVERSITY
TSINAN

SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

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1924
MRS. C. K. ROYS
Answered

Pre-Medical Department

1924–1925

University Bulletins - No. 38

PRINTED AT THE UNIVERSITY PRESS

The University Calendar

1924

January 1st, Tuesday	New Year's Holiday
January 16th, Wednesday	Autumn Semester closes
February 13th, Wednesday	Spring Semester opens Registration and Payment of Fees—all Schools
February 14th, Thursday	Recitations begin
April 4, 5, 6, Fri. Sat. Sun.	Tsing Ming Holidays
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June 18th, Wednesday	Spring Semester closes Commencement Exercises, 10 a.m.
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September 12th, Friday	Recitations begin
September 25th, Thursday	Birthday of Confucius
October 10th, 11th, Fri. and Sat.	National Holiday
December 24th, 25th, 26th	Christmas Holidays

1925

January 1st, Thursday	New Year's Holiday
January 14th, Wednesday	Fall Semester closes
January 25th, 26th, 27th,	Chinese New Year
February 5th, Thursday	Spring Semester opens Registration and Payment of Fees—all Schools
February 6th, Friday	Recitations begin
April 4th, 5th, 6th	Tsing Ming Holidays
April 10th	Good Friday
April 25th, Saturday	Field Day
June 6th, Saturday	Last day for receiving applications for Entrance Examinations
June 11th, Thursday	Spring Semester closes Commencement Exercises 10 a.m.
July 6th, 7th, 8th, 9th	Entrance Examinations
September 17th, Thursday	Fall Semester opens Registration and Payment of Fees—all Schools

SHANTUNG CHRISTIAN UNIVERSITY

THE PRE-MEDICAL DEPARTMENT

The Pre-Medical Department has been organized for the purpose of preparing students who contemplate the medical profession in those college grade subjects which are required for entrance to the School of Medicine. The course is given as a full two year course in the Junior College of Shantung Christian University, under the faculty of the School of Arts and Science, and students completing the course receive the Junior College certificate of the University. The course of instruction is aimed to satisfy the requirements for admission to any of the medical colleges of China.

ADMISSION

The requirement for admission to the Pre-Medical Department is graduation from either a men's or women's middle school, or its equivalent. Candidates for entrance are required: (1) to file an Application for Entrance, and (2) to present themselves for the General Matriculation Examinations.

The Application for Entrance must be made on the blank forms which will be furnished by the Registrar of the University on request. It includes a Medical Certificate, and must certify to the scholastic work of the applicant in previous schools, showing that he has completed at least seven years of Upper Primary and Middle School work.

There shall be one General Matriculation Examination held each year, commencing the first monday of July. The examinations will be held at the following centres and at such other centres as may be required by a sufficiently large number of applications:

Tsinan	Tsingchowfu	Hsuchowfu
Weihsien	Chefoo	Taiyuanfu
Peking	Hankow	Sianfu
Shanghai	Foochow	Weihweifu

For dates of examinations see Calender (page 1). The Application must be filed in the office of the Registrar *at least one month before the time set for the examinations.* Papers will not be graded until the Application has been approved. Both the information given in the Application and the results of the examinations will be taken into consideration in the admission of students.

The language used in the examinations is understood to be Chinese, except in the examination in English; but students whose preparation, either wholly or in part, has been in the English language, may, at their option, take the examinations in such subjects in either Chinese or English.

The General Matriculation Examinations for 1924 will be set in the following subjects:

1. *Chinese Language:* Two Papers.
   - A. One Essay, (Mandarin), of not less than 300 characters.
   - B. One Essay, (Wenli), of not less than 300 characters. The work of the higher primary and middle school courses is presupposed as the basis for this examination.

2. *English:* One Paper.
   Four years of middle school English is assumed as the groundwork for the examination.

3. *History:* Two Papers.
   - A. One paper on Chinese History.
   - B. One paper on Western History.
     General survey as outlined in the "Syllabus for Entrance in Western History," issued by the University.

4. *Mathematics:* Two Papers.
   - A. Arithmetic and Algebra, one paper.
   - B. Plane and Solid Geometry, one paper.

5. *Science:* One Paper.
   The questions will presuppose at least two years of middle school work in science, covering General Science, or elementary Physics and Chemistry. The paper must give evidence that the student has had individual laboratory work, and is familiar with the fundamentals of laboratory technique and physical measurement.
   Student's Laboratory Note-books must be presented at time of examination, to be forwarded with examination papers, and will receive credit as part of the examination grade in science.

Pass Grade and Conditions:

Students failing in one group will be allowed to enter the University provided that their minimum for that group is not less than 40%, and that the general average for all subjects (including those in which they have failed) reaches the minimum of 60%.

ADMISSION OF WOMEN

Women are admitted to the Pre-Medical Course, taking the same Entrance Examination as men students.

COURSE OF STUDY.

The course of study in the Pre-Medical Department aims specifically to present instruction in those subjects which are prerequisite to the study of medicine. The course covers a period of two years, comprising four semesters of sixteen weeks each of actual class work, excluding the period devoted to final examinations. By far the greater amount of the student's time is spent on the pre-medical sciences, Biology, Chemistry, and Physics, work in these subjects being presented mainly in the form of laboratory courses. The curriculum in outline is as follows:

First Year.

1st Semester	*Hours per week*	*Credit hours*
Biology 1a		3
Lectures, recitations	1	
Laboratory	6	
Chemistry 2		3
Lectures, recitations	3	
Laboratory	3	
Chinese 1	4	3
English	5	4
Physics 1		3
Lectures, recitations	2	
Laboratory	2	
Psychology 1	2	2
Religious Instruction 3	2	2
		20

2nd Semester	*Hours per week*	*Credit hours*
Biology 1b		3
Lectures, recitations	1	
Laboratory	6	
Chemistry 3		5
Lectures, recitations	2	
Laboratory	6	
Chinese 2	4	3
English	5	4
Physics 2		3
Lectures, recitations	2	
Laboratory	2	
Religious Instruction 4	2	2
		20

Second Year.

1st Semester		*2nd Semester*	
Biology 31a	3	Biology 31b	3
Lectures, recitations	1	Lectures, recitations	1
Laboratory	6	Laboratory	6
Chemistry 6	6	Chemistry 9	6
Lectures, recitations	3	Lectures, recitations	3
Laboratory	6	Laboratory	6
Chinese 3	4 3	Chinese 4	4 3
English	5 5	English	5 5
Physics 3	3	Physics 4	3
Lectures, recitations	2	Lectures, recitations	1
Laboratory	2	Laboratory	3
	20		20

DESCRIPTION OF COURSES

In Biology, Chemistry and Physics

The following are the courses in Biology, Chemistry, and Physics in the School of Arts and Science required of students in the Pre-Medical Department. The content of these courses conforms to the requirements for the two year college course in the pre-medical sciences adopted by the Council on Medical Education of the China Medical Association. The class work is carried on with the use of Mandarin as the medium of instruction. All students study the English language and the endeavor is made to train them to use English and Chinese for collateral reading and study. Both Chinese and English texts are used in the following courses. The student is drilled in the use of the scientific terminology in both Chinese and English.

All courses are of one semester in length. The semester and the number of credit-hours per course are shown after each course; thus: II (3). The Roman figures indicate the semester; the Arabic figures in parentheses indicate the number of *credit-hours* per course. The academic year begins in September, and all entering classes are received with the opening of the autumn or first semester. The following courses presuppose at least two years of work in science, and a familiarity with the principles of laboratory study.

Biology.

Arthur Paul Jacot, B. S., Associate Professor, Head of Department.
Hwa-tang Chin, Associate Professor.
Liu Chi Djang, Assistant.

The work in Biology is three fold. First, it aims to induce the student to think for himself, acquire self-reliance and develop his initiative,—thus preparing him for positions of responsibility and for research work. Second, it aims to develop in the student a sympathetic understanding of, and feeling for, the life about him. He is no longer to feel that plants and animals are for his amusement but that they are forms of life,—like himself,—and that they are responsive to the laws of energy and matter with which they come in contact. Third, it aims to help the student to realize man's place in nature, and the enormous gap between him and the other forms of life.

Biology 1 (a and b). *General Biology.* Lectures one hour a week; field and laboratory two periods a week; throughout the year.

This course consists of a series of studies on the fundamental principles of life, or those factors which act upon and have built up life forms as they are. I (3) II (3)

Biology 21. *Medical Zoology.* Prerequisites: Biology 1, Chemistry 2 and 3. Lectures one hour a week; laboratory two periods a week; throughout the year.

Designed especially for the Pre-Medical student, this course consists of a study of the structure and function of the animal body as ex-emplified by representative species of the major groups. Several months are given to dissection of the vertebrates, especially the mammal. Especially emphasis is placed on parasitism. The embryology of the chick is carefully studied.

Chemistry.

William Henry Adolph, Ph.D., Professor, Head of Department.
Gi-djei Wang, B. Sc., Associate Professor.
Shu-wen Dzang, Instructor.
Teng Chu, B. S. Assistant.

The greatest amount of the Pre-Medical student's time is devoted to chemistry. The courses below as presented to pre-medical students are aimed to train the student to "think chemically," and to provide a drill in those fundamental principles which are necessary before approaching the subjects of pathology and physiology. The laboratories occupy the entire ground floor of Bergen Hall and are largely equipped to fill the special needs of instruction in pre-medical chemistry.

Before entering upon Chemistry 2, the student is presumed to have had a thorough introductory course in the elements of the science and to have had some experience in laboratory work.

CHEMISTRY 2. *General Inorganic Chemistry.* Fundamental conceptions of chemistry; laboratory work accompanied by lectures and recitations developing the ideas of equilibrium, dissociation, catalysis, properties of solutions etc.; type study of the non-metals; constant reference to industrial applications. I (3)

Textbooks—Tsao and Adolph: 近世無機化學
McPherson and Henderson: Laboratory Manual.

CHEMISTRY 3. *General Inorganic Chemistry.* Study of important groups of the metals. The latter part of the course is devoted to qualitative analysis, with methods of separation, accompanied by lectures and recitations developing the theory of reaction, and solutions.

Prerequisite: Chemistry 2. II (5)
Textbooks—Tsao and Adolph: 近世無機化學
McPherson and Henderson: Laboratory Manual.
Noyes: Qualitative Chemical Analysis.

CHEMISTRY 6. *Quantitative Analysis.* This is a course developing the concepts of modern physical chemistry, with quantitative measurements in the laboratory. The viewpoint of the kinetic theory is emphasized; a thorough study of solutions and equilibrium, drill in representative gravimetric and volumetric procedures, the theory of indicators, a study of colloids, are included. I (6) [1]

Prerequisite: Chemistry 3.
Textbooks—Chapin: Second Year College Chemistry.
Chapin: Exercises in Second Year Chemistry.
Talbot: Quantitative Chemical Analysis.

CHEMISTRY 9. *Organic Chemistry.* Elementary course; a survey of the more important compounds of the aliphatic series, with a briefer treatment of the aromatic compounds; laboratory study of type organic reactions, with principles of organic qualitative analysis. II (6) [1]

Prerequisite: Chemistry 6.
Textbooks—Cohen: Theoretical Organic Chemistry.
Fisher-Payne: 有機化學實驗教科書

Physics.

Harold Wilson Harkness, B.A., B.Sc., A.M.E.I.C. Professor, Head of Department.
Wang Bing Shao, Assistant.

The work in Physics consists of 250 hours of general physics of college grade. One half the time is spent in the laboratory. Laboratory reports and class exercises are regularly required from the students.

The subject matter covered is, in general, indicated by the following texts and reference books:

"Mechanics, Molecular Physics and Heat"—Millikan.
"Electricity, Light and Sound"—Millikan and Mills.
"College Physics"—Kimball.
"College Physics"—Webster, Farwell and Crew.
"Elementary Electricity"—S. G. Starling.
"Text Book of Physics"—Millikan and Gale.

ADVANCED STANDING

Students who have taken part of their Pre-Medical work in other institutions may apply for admission with advanced standing. Such students will be required to take an examination on the work of the year below that at which they wish to enter, except in the case of students from recognized schools of college grade, who may be excused from the examination and given credit for the equivalent work already done in college subjects on submitting satisfactory credentials and laboratory note-books.

SPECIAL STUDENTS

Special students may be admitted to pursue any particular subjects which they may need in preparation for the entrance examinations to the School of Medicine.

FEES AND EXPENSES

The tuition fee of $30 and a dormitory fee of $2 are required for each semester. There are no special fees for laboratory courses, but a breakage deposit of $8. must be made at the beginning of each academic year to cover the cost of breakage and materials actually used by the student. The balance from this deposit is returned at the close of the year. In addition to the above, an athletic fee of $2 per semester is required from each student.

Rooms for students are provided in the University dormitories. Students are assigned, one to each room. Board is provided at the dining rooms, and is under the management of the students. A deposit of $18. per semester is required to be made with the University Treasurer in advance to cover the cost of board.

Fees must be paid in local currency at the beginning of each semester on the day of registration.

It is estimated that the total cost for each student per year of two semesters in the Pre-Medical Department, including books and incidentals, but excluding travel, approximates $180.

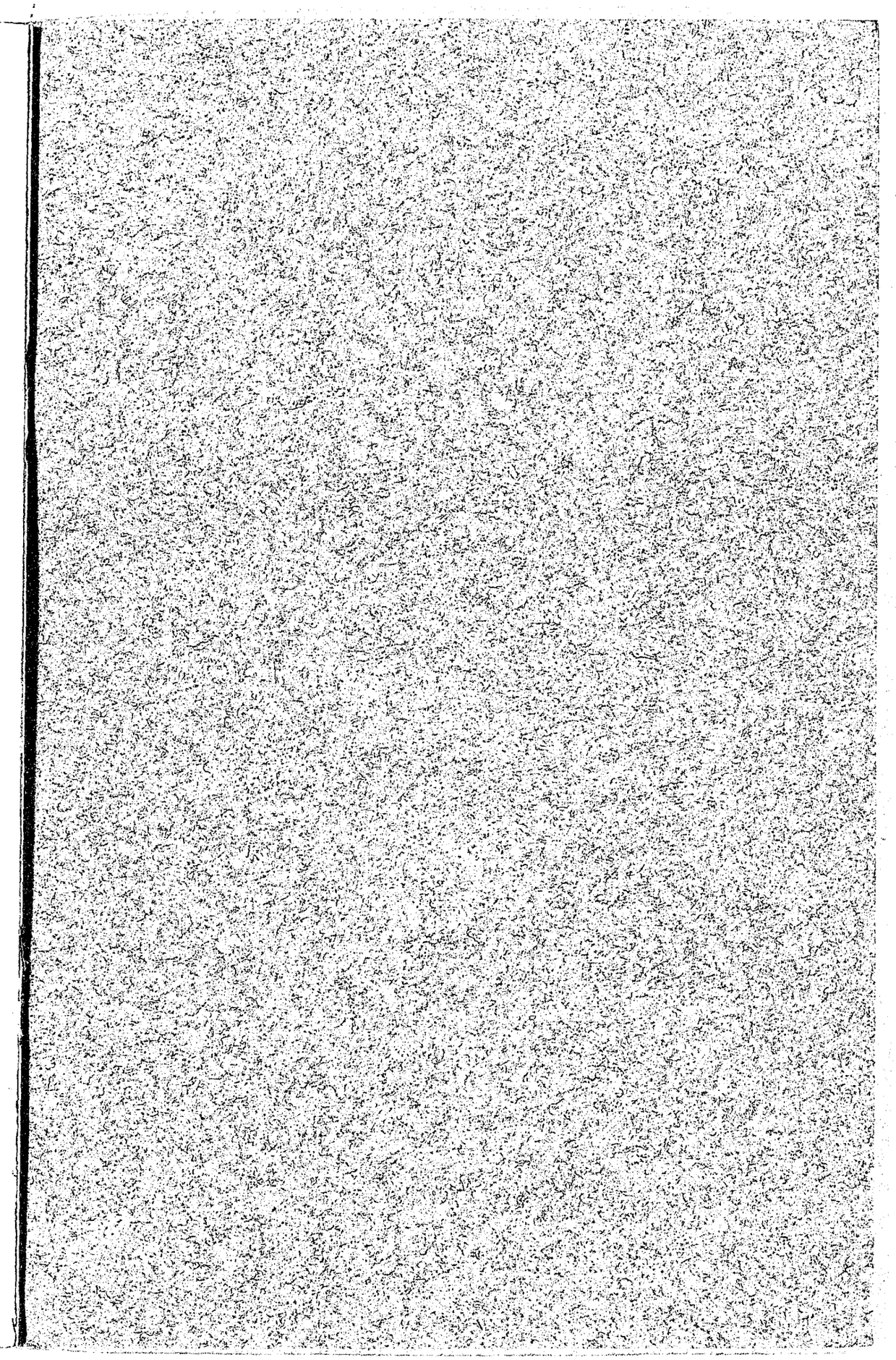
All inquiries and requests for further information regarding the Pre-Medical Department should be addressed to

THE DEAN

SCHOOL OF ARTS AND SCIENCE

SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, SHANTUNG



SHANTUNG CHRISTIAN UNIVERSITY BULLETIN

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No. 41

MINUTES OF THE ADMINISTRATIVE COUNCIL OF THE FIELD BOARD OF MANAGERS

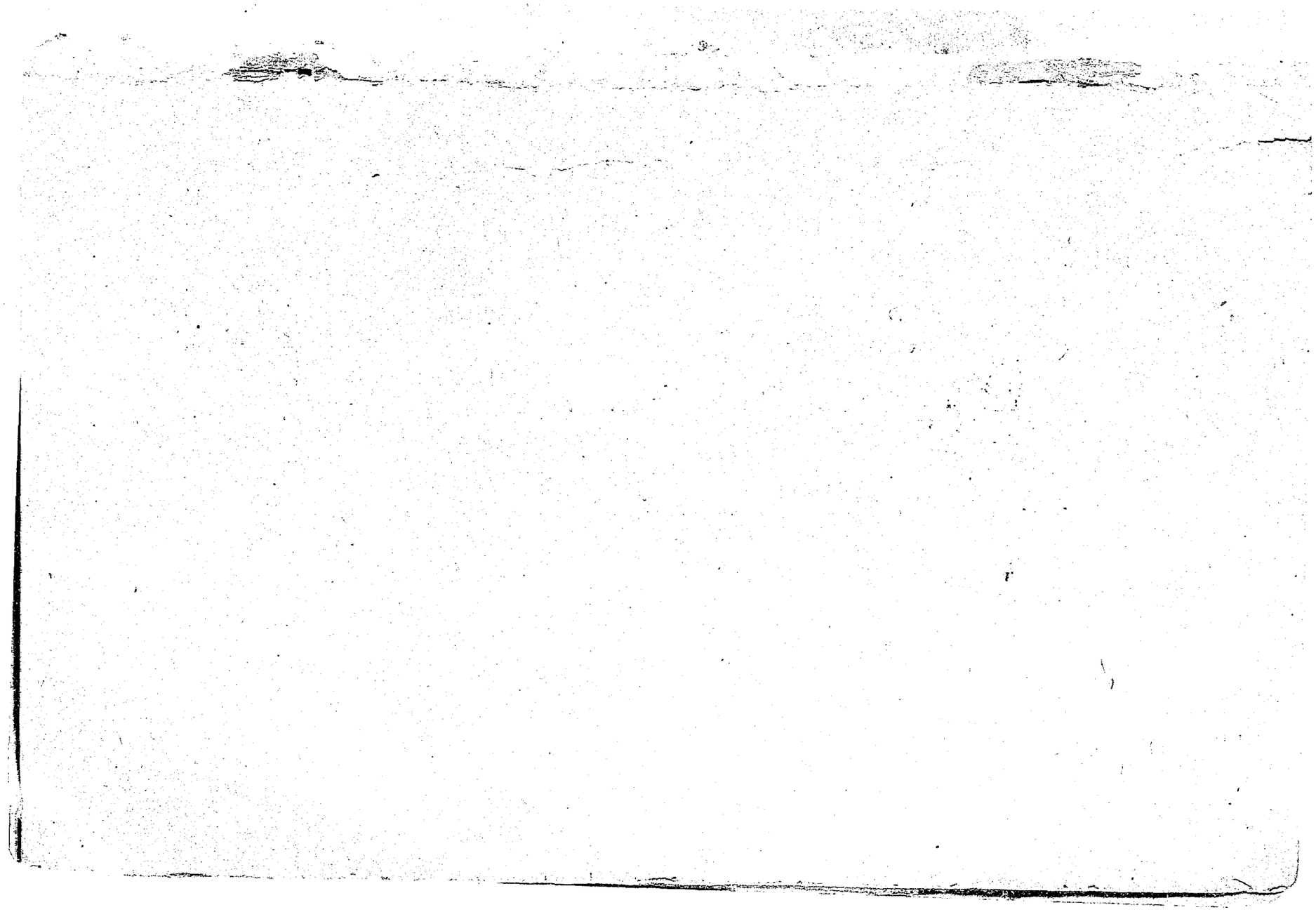
November 22,1923, and February 27, 1924
(Minutes A. C. 0144-0177)

and

MINUTES OF THE ANNUAL MEETING OF THE FIELD BOARD OF MANAGERS

June 18-19, 1924
(Minutes 490-531)

Printed at The University Press.



MINUTES OF FIELD BOARD OF MANAGERS

SHANTUNG CHRISTIAN UNIVERSITY

FIELD BOARD OF MANAGERS

Elected Mission Representatives.

*Rev. Paul R. Abbott, American Presbyterian Mission North, Chefoo.
*Rev. A. G. Castleton, English Baptist Mission, Choutsun.
Rev. N. A. Larsen, Lutheran United Mission, Kikungshan, (non-voting representative).
*Rev. R. A. Mitchell, Canadian Presbyterian Mission, Weihwei, Honan.
Rev. H. R. Rattenbury, Wesleyan Missionary Society, Hankow, Hupeh.
*Rt. Rev. Bishop T. Arnold Scott, D.D., Church of England Mission, Taian (Chairman).
*Rev. C. G. Sparham, London Missionary Society, Missions Building, Yuen Ming Yuen Road, Shanghai.
Rev. T. N. Thompson, American Presbyterian Mission North, Ichowfu.
Mr. Y. H. Wang, American Board Mission, Tehchow.
Rev. H. R. Williamson, English Baptist Mission, Taiyuanfu, Shansi.
James B. Woods, M.D., American Presbyterian Mission South, Tsingkiangpu, Ku.

Representatives of Women's Committee.

*Miss Louise Hobart, Methodist Mission, Peking.
*Dr. Lois Pendleton, American Board Mission, Tehchow.
Miss Mary Scott, Chung Teh School, Peking (alternate Dr. Clementina Bash, Presbyterian Mission, Peking).

Elected Alumni Repesentatives.

Mr. Lien Dzi-Do, Anglo-Chinese College, Tientsin.
*Mr. Sung Hui-wu, Wei San-lu, Tsinan.

Members by co-option.

Rev. Bishop L. J. Birney, Missions Building, Yuen Ming Yuen Road, Shanghai.
*Dr. Chang Po-ling, Nankai College, Tientsin.
Rev. Cheng Ching-yi, D. D., Shanghai.
Dr. Fong F. Sec, Commercial Press, Shanghai. (Vice-Chairman.)
P. K. Liang, M. A., M. B., F. R. C. S. E., 33, Gordon Road, Tientsin.
Dr. J. Wong Quincey, Tsing Hua College, Peking.

Member Ex Officio.

Harold Balme, F.R.C.S., President.
Those marked * are members of the Administrative Council.

MINUTES OF THE ADMINISTRATIVE COUNCIL

OF THE

FIELD BOARD OF MANAGERS

The following Minutes of the Administrative Council, (pages 1-12) having been subsequently confirmed by circulation, are herewith incorporated in the Official Minutes of the Field Board of Managers.

MEETING OF THE ADMINISTRATIVE COUNCIL

Tsinan, 22nd November, 1923.

456. **Members Present:—** (A. C. Minute 0144)

Dr. Chang Po-ling (Chairman), Dr. Harold Balme, Rev: A. J. Garnier, Mr. D. D. Lien, Bishop T. Arnold Scott, Rev: T. N. Thompson, and Rev: A. D. Heininger, (Minute Secretary).

457. **The Late Mrs Chalfant.** (A. C. Minute 0145)

Voted:—That the Administrative Council of the Field Board of Managers have heard with deep regret of the death of Mrs William Chalfant, formerly teacher of English in the School of Arts and Science, and desire to place on record their sincere appreciation of her efficient and devoted services. From the time of her marriage to the late Dr. Chalfant in 1907, Mrs Chalfant took the keenest interest in the development of the University, and after Dr. Chalfant's lamented death in 1917, she became a full member of the teaching staff of the School of Arts and Science. The enthusiasm and careful preparation which she devoted to her classes, and her deep concern for the spiritual life and the personal welfare of her students, will long be remembered in the University and by all who came under her influence. The Administrative Council would extend to her stepsons and to the other members of her family this sincere expression of their heartfelt sympathy.

458. **Mrs John Carr and Mrs Oliver Todd.** (A. C. Minute 0146)

Voted:—That the Administrative Council of the Field Board of Managers would record their sincere thanks to Mrs John Carr, formerly of Shansi, for her generous assistance in the secretarial work and promotional activities of the University in Great Britain; and also to Mrs Oliver Todd for her efforts in attempting to develop interest in the Extension Department in the United States.

459. **Amendment to Constitution—Women's Committee and Representation on the Field Board.** (A. C. Minute 0147)

Voted:—Having considered the suggestion of the North American and British Joint Boards with reference to the proposed Women's Committee, and the method of election of women representatives upon the Field Board, the Administrative Council of the Field Board would reply:—

1. That in their opinion a fuller representation upon the Board of the interests of women's work in the University would be secured by adhering to the original plan.

2. That they would recommend the substitution of the words "teachers or a suitable financial equivalent" for the words "women teachers on the staff" in the suggested amendment to constitution. (See Minutes of Field Board, June 1923, No: 427 (b), "Membership of Women's Committee"). The whole paragraph would therefore read as follows:—

Membership of Women's Committee.

That each Mission Board participating in Women's work in the University (by providing teachers or a suitable financial equivalent and the recognised contribution towards the running expenses) be entitled to a representative on the Women's Committee, to be elected in such way as their Missions shall determine; such representatives shall then co-opt further members, either men or women, the number of such co-opted members not to exceed those elected by the Missions.

460. Functions of Vice-President. (A. C. Minute 0148)

Voted:—That in reply to the request of the British Joint Board that the Field Board of Managers would define the functions which they would wish Dr. Cheng Ching-yi to perform, in the event of his being able to accept the post of Vice-President of the University, the Administrative Council of the Field Board of Managers would suggest the following:—

1. To act as Administrative Head of the University on all occasions when the President is absent.

2. To take general oversight of the spiritual life of the students, and to assist in correlating the various activities for the preservation and deepening of that life.

3. To cultivate close contact with the Chinese Churches throughout the constituency served by the University, with a view to the deepening of their interest in the work of the institution, and increasing the value of the service which the University is able to render to the growing Christian community.

4. To develop the Chinese life of the University and to help in cultivating friendly intercourse with the Chinese official and educational classes.

461. Teacher Training Department and University Middle School. (A. C. Minute 0149)

Voted:—That the Administrative Council of the Field Board of Managers have given careful attention to the Resolutions passed by the N. American and British Joint Boards with reference to the development of the Teacher Training Department in the University and a University Middle School. They note with appreciation the sympathetic attitude adopted by the Joint Boards toward the need for developing an efficient Middle School with full facilities for practice teaching in connection with the University, and are gratified to learn that the N. American Joint Board are hopeful that in the not distant future the necessary funds for the support of such a school will be found.

The Council are of opinion that the lack of adequate supervision would make it impracticable to attempt to secure opportunities for practice teaching in Middle Schools situated at a distance from the University, whilst the suggestion as to the possibility of securing such facilities in the Government Schools of the City, raises difficulties which they fear will prove insuperable.

They would however recommend to the University Senate and to the Faculty of the School of Arts and Science that careful enquiry be made on both these points and also as to the possibility of opening a small Day Middle School in the upper class-rooms of Mateer Hall, pending the provision of funds for permanent accommodation of a residential character.

STAFF.

462. University Health Officer. (A. C. Minute 0150)

Voted:—That Dr. C. Titterton Maitland be appointed Health Officer to the University, and that a sincere vote of thanks be accorded to Dr. E. B. Struthers for the efficient services which he kindly rendered in organizing the University Health Office pending the arrival of a permanent Public Health Officer.

463. **Acting Dean of the School of Theology.** (A. C. Minute 0151)

Voted:—That in accordance with the recommendation of the University Senate, the Administrative Council of the Field Board of Managers heartily recommend that the Rev: L. V. Cady be appointed Acting Dean of the School of Theology during Mr. MacRae's absence on furlough.

464. **Head of Department of Education.** (A. C. Minute 0152)

Voted:—That Dr. Li Tien-lu be appointed Head of the Department of Education in the School of Arts and Science.

465. **Head of Department of English.** (A. C. Minute 0153)

Voted:—That the Field Board of Managers be requested to ask the American Presbyterian Mission Board, North, to arrange for the appointment to the University of a Head of the English Department to take the place of Mrs. Chalfant, and to allow the salary which has now lapsed through her decease, to be used for temporary assistance in this department pending such an appointment.

466. **Mrs Henry Payne.** (A. C. Minute 0154)

Voted:—That in accordance with the unanimous recommendation of the University Senate, Mrs. Henry Payne be appointed a Lecturer in English on the staff of the School of Arts and Science, with a seat on the Faculty.

467. **Miss Gladys Nunn.** (A. C. Minute 0155)

Voted:—That the Administrative Council of the Field Board of Managers have heard with much gratification of the acceptance, by the Women's Auxiliary of the Wesleyan Methodist Missionary Society, of Miss Gladys Louise Vera Nunn, a trained nurse and qualified masseuse, with a view to her appointment, after her period of language study, as a member of the nursing staff of the University Hospital, for special work in the Department of Electro-Therapeutics and Massage.

468. **Fire Protection and Water Supply.** (A. C. Minute 0156.)

Voted:—That the Administrative Council have noted with grave concern the report of the Senate's Committee on Fire Control and Water Supply, shewing the lack of any provision for protection of the

University buildings against fire, and also emphasizing the inadequacy of the present water supply for such an emergency, or to meet the growing demands of the institution. They note that according to the carefully prepared estimates of these committees, the sum of $3000 is required for the provision of hydrants, hose, and other apparatus for fire control, and a further sum of $16,000 for the boring of a new well, and the provision of storage tanks, additional pump, etc. They consider that these items should be included amongst the most urgent needs of the University, and that steps should be taken to see if in any way the sums estimated can be provided.

The following Minutes 469-474 (0157 to 0162) represent the Report of the Finance and Property Committee which was adopted unanimously:—

469. **Site for Alumni Building.** (A. C. Minute 0157)

Voted:—That a site be reserved for the proposed Alumni Building at the east extremity of the campus semicircular drive.

470. **Primary School in connection with Follansbee Village.** (A. C. Minute 0158)

Voted:—That the piece of land immediately north of houses at present erected in the Follansbee Village be reserved for the erection of a Primary School.

471. **Reservation for Department of Biology.** (A. C. Minute 0159)

Voted:—That a piece of land on the west of the campus between the machine shop and the first row of residences, and measuring approximately 70 feet by 200 feet, be reserved for the Department of Biology for the cultivation of trees and the breeding of frogs, turtles, etc.

472. **General Building Fund.** (A. C. Minute 0160.)

A financial statement was laid before the Committee shewing that after the realizable assets (building materials and engineering supplies), now credited to the Arts College Building Fund, have been disposed of, there will remain a debit balance of Mex. $14,218 against this fund. This deficit is partly due to the fact that Mex. $10,000 of the original appropriation was invested in the Banque

Industrielle, and has not so far been recovered, and partly owing to the cost of building and furnishing the University Chapel, and the Employees' Residences having exceeded the funds in hand for these purposes. *(See footnote)

473. **Campus Charges for Public Services.** (A. C. Minute 0161)

Voted:—That in view of the fact that the former Arts College Building Fund is now exhausted, and that there are no funds in hand which can be utilized for general campus developments, all charges for the extension of water supply and electric light mains, new roads etc. be assessed proportionately against the buildings which will be served by the same:

Also that the Senate be asked to appoint a special Committee to consider the levying of an equitable rate against all buildings in the University, for the maintenance and upkeep of such public services in the future.

474. **Students' Fees.** (A. C. Minute 0162)

Correspondence from the Secretaries of the two Joint Boards having been received, urging that in view of the impossibility of securing larger appropriations from home, an attempt should be made to secure a greater income from tuition fees, it was

Voted:—(a) That commencing from September 1924, tuition fees be charged from all students in the University, including the sub-freshman year, on the following scale:—

Medicine and Pre-Medicine	$60	per annum
Arts and Science	$50	" "
Theology	$20	„ "

(b) That as soon as arrangements can be made for the heating of the Arts and Theological Dormitories, the dormitory fee from all students be raised to the uniform rate of $5 per semester.

* The above minute was subsequently amended. See Minute 525 (c)

MINUTES OF THE ADMINISTRATIVE COUNCIL

Tsinan, 27th February, 1924.

475. **Members Present.** (A. C. Minute 0163)

Bishop T. Arnold Scott (Chairman); Dr. H. Balme, Mr. D. D. Lien, Rev. R. A. Mitchell, Rev. T. N. Thompson, and Rev. A. D. Heininger, (Minute Secretary)

476. **Corresponding Member.** (A. C. Minute 0164)

Voted:—That Dr. C. F. Johnson; member, of the Field Board of Managers, be invited to sit with the Administrative Council during the present session as corresponding member.

477. **The Late Dr. J. Auriol Armitage.** (A. C. Minute 0165)

Voted:—That the Administrative Council of the Field Board of Managers have heard with sincere regret of the death of Dr. J. Auriol Armitage, Honorary Treasurer of the British Joint Board of the Shantung Christian University. They remember with appreciation the visit which Dr. Armitage paid to Tsinan in 1921, and recall with deep gratitude the generous support which Dr. Armitage gave to the School of Medicine and University Hospital, and his enthusiasm on behalf of union effort in Christian higher education. They would express to Mrs Armitage and her family, and to the British Joint Board, their sincere sympathy in the great loss which they have sustained.

478. **The Late Mrs J. S. Whitewight.** (A. C. Minute 0166)

Voted:—That the Administrative Council of the Field Board of Managers have heard with deep regret of the death of Mrs J. S. Whitewright, which occurred in England on 11th January last. The wide influence exerted by Mrs Whitewright during her 40 years of residence in Shantung, and the large share which she took, in association with her husband, in building up the successful work of the Tsinan Institute, can never be forgotten by those interested in the work of the University, in which that Institute is incorporated. The Administrative Council desire to place on record this expression of their sincere appreciation of Mrs Whitewright's devoted services, and of keen sympathy with Mr. Whitewright and his family in their sore bereavement.

479. **Grant Towards the Cost of Pre-medical Education.** (A. C. Minute 0167)

Voted:—That the Administrative Council have heard with much gratification of the action which has been taken by the Board of Foreign Missions of the Norwegian Lutheran Church of America in making a grant of Gold $500 to the Pre-Medical Department, and by the Wesleyan Methodist Missionary Society of England in increasing their grant to the School of Medicine by the sum of Mex. $500 for the same purpose. They also note with appreciation that the Society for the Propagation of the Gospel is hoping to make a grant towards this department during the present year. They desire to express their gratitude to these Boards for the actions which they have taken in assuming a share of the expense of this important department of the University's work, and would express the hope that the remaining Mission Boards at present co-operating solely in the School of Medicine may also see their way to take a similar course.

480. **Vice-Presidency of the University.** (A. C. Minute 0168)

Voted:—That the Administrative Council of the Field Board of Managers have read with great satisfaction the Minute (No. 238) of the British Joint Board, stating that the Directors of the London Missionary Society are prepared to make a contribution of $2,400 per annum towards the expenses of the Vice-Presidency, in the event of Dr. Cheng Ching-Yi being willing to accept such a post, this action being subject to the approval of the Standing Committee of the L. M. S. Advisory Council in China.

The Council note that the suggestion to invite Dr. Cheng Ching-Yi to the Vice-Presidency of the University has not only been heartily approved on the Field, but has received the enthusiastic support of the British and N. American Joint Boards. They would therefore address an earnest appeal to the Advisory Council of the London Missionary Society that they give their approval to this proposition, at the same time earnestly requesting the British and N. American Joint Boards to assume responsibility for the remainder of the Budget ($1,600 per annum) still left unprovided.

481. **Amalgamation of N. China Union Medical College for Women.** (A. C. Minute 0169)

Voted:—That the Administrative Council of the Field Board of Managers, on the occasion of their first meeting since the amalgamation with the N. China Union Medical College for Women has become completed, desire to place on record their great satisfaction at the step which has now been taken, and which they believe will not only extend the cause of Medical Education, but also have large significance in the development of Christian higher education for women in N. China. The Council would extend a most hearty welcome to Dr. Eliza Leonard, Dr. Frances Heath, Dr. Annie Scott, Dr. Susan Waddell and Dr. Julia Morgan—the five members of the Women's Medical College who have now been transferred to Tsinan—and to Miss Hobart, Miss M. Scott and Dr. Lois Pendleton, who have been appointed members of the Field Board of Managers by the newly organized Women's Committee. The Council look forward with hopeful anticipation to the service which the University will be able to render in the future in the training of Christian women for various branches of usefulness.

482. **Dean of Women.** (A. C. Minute 0170)

Voted:—That the nomination, by the Women's Committee, of Dr. Eliza E. Leonard as Dean of Women in the University, be heartily approved.

483. **Draft Bill of Incorporation of the University.** (A. C. Minute 0171)

Voted:—That the Administrative Council of the Field Board of Managers have given careful consideration to the proposed draft Bill of Incorporation of the University, as drawn up by Mr. E. W. Wright of Toronto. They note that the present Bill proposes to place the whole control of the University in the hands of a Board of Governors, but that all matters of internal regulations will be contained in bye-laws which are to be subsequently drawn up by that Board. The Administrative Council regard it as essential that in the bye-laws provision be made whereby the responsibility and powers of the Board of Governors can be delegated to the Field Board of Managers as at present constituted and to the other Field administrative bodies, in

479. **Grant Towards the Cost of Pre-medical Education.** (A. C. Minute 0167)

Voted:—That the Administrative Council have heard with much gratification of the action which has been taken by the Board of Foreign Missions of the Norwegian Lutheran Church of America in making a grant of Gold $500 to the Pre-Medical Department, and by the Wesleyan Methodist Missionary Society of England in increasing their grant to the School of Medicine by the sum of Mex. $500 for the same purpose. They also note with appreciation that the Society for the Propagation of the Gospel is hoping to make a grant towards this department during the present year. They desire to express their gratitude to these Boards for the actions which they have taken in assuming a share of the expense of this important department of the University's work, and would express the hope that the remaining Mission Boards at present co-operating solely in the School of Medicine may also see their way to take a similar course.

480. **Vice-Presidency of the University.** (A. C. Minute 0168)

Voted:—That the Administrative Council of the Field Board of Managers have read with great satisfaction the Minute (No. 238) of the British Joint Board, stating that the Directors of the London Missionary Society are prepared to make a contribution of $2,400 per annum towards the expenses of the Vice-Presidency, in the event of Dr. Cheng Ching-Yi being willing to accept such a post, this action being subject to the approval of the Standing Committee of the L. M. S. Advisory Council in China.

The Council note that the suggestion to invite Dr. Cheng Ching-Yi to the Vice-Presidency of the University has not only been heartily approved on the Field, but has received the enthusiastic support of the British and N. American Joint Boards. They would therefore address an earnest appeal to the Advisory Council of the London Missionary Society that they give their approval to this proposition, at the same time earnestly requesting the British and N. American Joint Boards to assume responsibility for the remainder of the Budget ($1,600 per annum) still left unprovided.

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Voted:—That the Administrative Council of the Field Board of Managers, on the occasion of their first meeting since the amalgamation with the N. China Union Medical College for Women has become completed, desire to place on record their great satisfaction at the step which has now been taken, and which they believe will not only extend the cause of Medical Education, but also have large significance in the development of Christian higher education for women in N. China. The Council would extend a most hearty welcome to Dr. Eliza Leonard, Dr. Frances Heath, Dr. Annie Scott, Dr. Susan Waddell and Dr. Julia Morgan—the five members of the Women's Medical College who have now been transferred to Tsinan—and to Miss Hobart, Miss M. Scott and Dr. Lois Pendleton, who have been appointed members of the Field Board of Managers by the newly organized Women's Committee. The Council look forward with hopeful anticipation to the service which the University will be able to render in the future in the training of Christian women for various branches of usefulness.

482. **Dean of Women.** (A. C. Minute 0170)

Voted:—That the nomination, by the Women's Committee, of Dr. Eliza E. Leonard as Dean of Women in the University, be heartily approved.

483. **Draft Bill of Incorporation of the University.** (A. C. Minute 0171)

Voted:—That the Administrative Council of the Field Board of Managers have given careful consideration to the proposed draft Bill of Incorporation of the University, as drawn up by Mr. E. W. Wright of Toronto. They note that the present Bill proposes to place the whole control of the University in the hands of a Board of Governors, but that all matters of internal regulations will be contained in bye-laws which are to be subsequently drawn up by that Board. The Administrative Council regard it as essential that in the bye-laws provision be made whereby the responsibility and powers of the Board of Governors can be delegated to the Field Board of Managers as at present constituted and to the other Field administrative bodies, in

respect to all such matters as are controlled by those bodies under the present constitution. They would view with the greatest apprehension any reversal of this policy, as they fear that it would militate seriously against the prospects of the University becoming rooted in Chinese soil, and securing an increasing measure of Chinese interest and support. They urge that all details in the actual Bill be carefully scrutinised from this view point, and hereby request that the bye-laws, when drafted, be submitted to the Field for careful consideration by the administrative officers and the Field Board of Managers before being adopted by the proposed new Board of Governors.

484. Offer of Teacher Training Facilities at Hamilton Academy, Tsinan. (A. C. Minute 0172)

Voted:—That the Administrative Council have learned with deep appreciation of the following action which was taken by the Shantung Mission of the A. P. M. in June last:—

"We recommend that the Executive Committee of the Shantung Mission consult with the authorities of the Shantung Christian University as to the possibility of making arrangements whereby the Hamilton Memorial Academy may be mutually staffed and equipped and be utilized as a training school for the University. Should such an arrangement prove to be impossible, we recommend to the authorities of the Shantung Christian University the necessity of building at an early date a Junior-Senior Middle School near the Shantung Christian University, but so located with reference to the University campus, that administration and discipline may be separately maintained; this institution to be equipped and staffed as a training school for the students in the University Department of Education."

The Council are gratified to hear that the Department of Education of the School of Arts and Science is already offering courses for students during the present semester, and is hoping to expand its work considerably during the forthcoming year.

The Council have also given careful consideration to the report presented by the special committee of the School of Arts and Science, which has been studying closely the possibility of securing adequate

facilities for teacher-training. They note that it is the unanimous opinion of the committee that owing to the distance between the East Suburb and the University, it would not be practicable to use that centre for teaching purposes, and regret that on this account it does not seem possible to accept the offer of the Presbyterian Mission, the generosity of which has been much appreciated.

The Council would endorse the recommendation of the Department of Education that steps should be taken without delay to procure facilities for teacher-training in close proximity to the Campus, and in that way lay the foundation of the new University Middle School which has already been approved in principle by both Joint Boards.

485. Department of Education and Middle School. (A. C. Minute 0173)

Voted:—That pending the securing of sufficient funds for the erection of dormitories and class-rooms for the proposed Middle School, the Administrative Council would strongly favour the commencement of Middle-School work by the utilization of rented quarters to serve as temporary dormitories, and by the fitting up of spare class-rooms on the upper floor of Mateer Hall. It is estimated that a grant of $1,260 would suffice for the preparation of these temporary quarters, and that an annual grant of $2,124, in addition to what would be secured from tuition fees, would enable the University to meet the expense of the first two classes of a Senior Middle School during the coming year. In view of the vital importance of providing adequate facilities for practice teaching for the new Department of Education, the Administrative Council would strongly appeal for a special appropriation to meet this need.

486. Staff Furloughs. (A. C. Minute 0174)

Voted:—That Dr. L. M. Ingle and Dr. F. H. Mosse be permitted to take furlough from June 1925.

487. Relationship with China Council of A. P. M. (A. C. Minute 0175)

The following action of the American Presbyterian Mission North, was received:—

"As the question of procedure has been raised when the University wishes its actions to receive the approval of the China Council of the Presbyterian Mission, the Mission would request its representative on the Field Board of Managers of the University to take up this question with that body, and that the Field Board of Managers and the China Council, in consultation, outline a definite method of procedure."

Voted:—That the President of the University be appointed a Committee of one to confer with the Chairman of the China Council of the Presbyterian Mission, to recommend a method of procedure.

488. **Annual Budget.** (A. C. Minute 0176)

Voted:—(a) That the Budget for the fiscal year, July 1st, 1924 to June 30th, 1925, (See page 31) be adopted.

(b) That the British Joint Board be earnestly requested to increase their appropriation to University expenses by the sum of $1000 in order to replace the similar sum previously granted by the English Baptist Mission, which that Mission finds it impossible to continue.

(c) That the N. American Joint Board be asked to forward an appeal to those individuals and Churches who have been responsible for the support of Miss Wilson, requesting them to continue their subscriptions towards the maintenance of her successor.

489. **University Needs.** (A. C. Minute 0177)

Voted:—That the list of needs given on pages 32,33 be specially emphasized as of primary importance.

SHANTUNG CHRISTIAN UNIVERSITY

FIELD BOARD OF MANAGERS

Minutes of the Sixth Annual Meeting

Held at Tsinan, June 18-19, 1924.

490. **Members Present:**

Dr. Harold Balme, Dr. Clementine Bash (alternate for Miss Mary Scott), Dr. Fong Sec, Rev. A. J. Garnier, Dr. C. F. Johnson (alternate for Rev. Paul R. Abbott), Rev. R. A. Mitchell, Dr. Lois Pendleton, Bishop T. A. Scott, Mr. Sung Hui-wu, Rev. H. B. Rattenbury, Rev. T. N. Thompson, Mr. Y. H. Wang, Rev. H. R. Williamson.

Rev. N. A. Larsen sat with the board, but without voting.

Apologies for absence were received from Dr. Chang Po-ling, and Rev. C. G. Sparham.

Bishop Scott took the Chair.

Rev. R. A. Mitchell was appointed to act upon the Finance and Property Committee for this Session, in place of Rev. A. D. Heininger.

491. **Election of Recording Secretary.**

Voted:—That the Rev. H. R. Williamson be appointed Recording Secretary for the ensuing year.

492. **Welcome to New Members of Board and Administrative Council.**

Voted:—That a hearty welcome be accorded to the new representatives who have joined the Field Board since the last annual meeting, namely, Miss Hobart, Miss Mary Scott and Dr. Lois Pendleton, with Dr. Bash as alternate, representing the Women's Committee; Rev. Harold B. Rattenbury, representing the Wesleyan Methodist Missionary Society; Mr. Y. H. Wang, representing the American Board Mission; Rev. N. Astrup Larsen, representing the Lutheran United Mission; and Mr. Sung Hui-wu, elected by the Alumni Association. The Board also note with pleasure that Dr. Lois Pendleton has been appointed as representative of the Women's Committee upon the Administrative Council.

493. Confirmation of Provisional Appointments.

Voted:—That the Field Board officially confirm the provisional appointments to staff made by the Administrative Council at their meetings of November 1923 and February 1924 (See Minutes 0151, 0152, 0154, 0155, and 0170), but that the appointment of Dr. C. Titterton Maitland as University Health Officer (Minute 0150) be not confirmed owing to his recent resignation.

494. Report of Administrative Officers.

The Reports of the Administrative Officers were presented and accepted as follows:—

a. President's Report, by Dr. Harold Balme.

b. Report of the School of Arts and Science, by the Dean, Dr. Li Tien-lu.

c. Report of the School of Theology, by the Acting Dean, Rev. L. V. Cady.

d. Report of the School of Medicine, by the Dean, Dr. Samuel Cochran.

e. Report of the Dean of Women, by Dr. Eliza Leonard.

f. Report of the University Hospital, by the Superintendent, Dr. E. R. Wheeler.

g. Report of the Extension Department, by the Director, Rev. J. S. Whitewright.

h. Treasurer's Report, by the Acting Treasurer, Rev. J. W. Hunter.

495. Representation of Women on the Field Board.

Voted:—That the Field Board have given careful consideration to the constitutional point which has been raised by the British Joint Board with reference to the representation of women members. In view, however, of the fact that the entire question of the constitution of the Field Board will need to be revised in connection with the expected Charter and Byelaws, the Field Board would defer further action on this subject for the present.

496. Charter and Incorporation.

Voted:—That the Field Board have heard with great satisfaction of the steps which have been taken in including within the new University Bill the various suggestions previously made by the Administrative Council and by the British Joint Board. They are encouraged by the progress which has already been made, with a view to securing the early passage of the Bill, and would extend their sincere thanks to the special committee of the North American Joint Board and to the representatives of the British Joint Board, who have expended so much time and thought upon this important development.

497. Cost of Incorporation.

Voted:—That the Field Board of Managers are pleased to note from the Minutes of the North American and British Joint Boards that steps are being taken to secure special contributions to meet the costs of incorporation of the University. They trust that such may be entirely successful, so that no draft will be made for this purpose on the quite inadequate budget for current expenses.

498. Admission of Women Students.

Voted:—That the Field Board have heard with great satisfaction of the success which has followed the opening of certain Schools of the University to women students, as evidenced by the Reports of the Administrative Officers. They note that the Department of Education of the School of Arts and Science will be in a position to offer full courses during the forthcoming year; and in view of the urgent need for qualified women teachers in all parts of the field, they earnestly support the appeal of the Senate, that the Department should also be placed upon a co-educational basis. In preparation for this action, the Field Board would recommend to the University Authorities that a limited number of women students be admitted to the School of Education in the autumn of 1924, with the understanding that this step will require no additional staff or financial support for at least one or two years. The Board feel strongly that this will be one of the largest services which the University can render to the Christian womanhood of this Province, and to the future upbuilding of the Church.

499. University Middle School.

Voted:—That the hearty thanks of the Field Board be extended to the British Joint Board for their kindness in undertaking to guarantee half of the expenses connected with the opening of the University Middle School in temporary quarters. They trust that it may be possible for the North American Joint Board to assume responsibility for the remainder of the expense, and would strongly urge upon the Joint Boards that permission be granted to make a commencement with the opening of at least two classes in February next.

500. Continuance of Sub-Freshman Year.

Voted:—That having received a request from the Senate that the maintenance of a Sub-Freshman Year in the University be discontinued after the summer of 1926, owing to the heavy burden which it imposes upon the teaching staff and financial resources of the School of Arts and Science, the Field Board hereby endorse the proposition.

501. Commercial Courses.

Voted:—That in response to the request of the British Joint Board for fuller particulars regarding the suggested Commercial Courses in the School of Arts and Science, the President be instructed to prepare an outline course, and forward the same to the British Joint Board.

502. Relationship of S. C. U. with China Council of A. P. M.

Voted:—That the following report be accepted:

The President reported that after correspondence with the Chairman of the China Council it is proposed that in case of matters of mutual concern to the University and China Council, an official report be sent from the University to the Chairman of the Shantung Mission of the A. P. M., who would refer the matter direct to the Council.

503. Report of Committee on Boxer Indemnity.

The President reported that owing to the difficulty of financing a conference which would be representative of British educational interests throughout the country, and the inadvisability of holding a meeting which was not fully representative, the Committee had found

it impracticable to take any steps with a view to joint consultation between Chinese and foreign educationalists on the problems raised by the proposed use of the Indemnity Funds.

The above report was accepted as a partial report, and the Committee was asked to continue to act.

504. Non-Resident Students.

Voted:—That the Field Board of Managers have received the request of the North American Joint Board, that consideration be given to the important question of admitting non-resident students to the University. The Field Board have also had before them a report of the experience of other Christian Colleges in China to which such students have been admitted. In view of the facts contained in that report, the Field Board would not recommend the adoption of a general principle of admitting non-resident students, except in occasional cases in which the conditions of residence and the moral surroundings of the student are carefully safeguarded.

505. Support of Chinese Members of Staff.

Voted:—That the Field Board have given careful consideration to the revised Minute of the British Joint Board (Minute 223) with reference to the procedure to be followed in the case of the appointment of Chinese members of staff, whose support is sought from Western funds. They regret that the procedure which they proposed does not fully commend itself to the British Joint Board, but would venture to point out that the method suggested by the British Joint Board, requiring a missionary organization in China, which might not even be a co-operating unit in the University, to communicate direct with its Home Society would involve serious difficulty and delay, nor could there be any guarantee of such action being taken. They would therefore reaffirm their former conviction, which they note is also shared by the North American Joint Board, that the relationship of Chinese members of staff should be direct with the University authorities and that the University officers should be responsible for forwarding the full credentials of such members to the Joint Boards.

506. Post-Graduate Facilities for Chinese Members of Staff.

Voted:—That in accordance with the recommendations of the Senate, facilities for post-graduate study, including a period of leave on full salary, be provided at regular intervals, as far as posible, for all Chinese members of the professorial and assistant professorial staff, and that the Faculties of the several schools be asked so to arrange their teaching schedules and budgets as to permit of the carrying out of this proposal. The Board would suggest that in the event of funds not being available for the engaging of substitute teachers during the absence of Chinese professors, arrangements should be made by the Faculties by which the subjects taught by such professors could be omitted for one semester, or undertaken by other members of staff, in similar manner as is followed in the case of the foreign members of faculty.

507. Limitation in Numbers of Medical Students.

Voted:—The Field Board would call the attention of the Joint Boards to the serious conditions of affairs mentioned in the Report of the Dean of School of Medicine, according to which the following resolution was passed by the Medical Faculty:

"That beginning with the fall of 1926 the entering classes to the School of Medicine be limited to thirty students unless arrangements can be made for additional laboratory space and for teaching force sufficient to carry on instruction of larger classes without a lowering of efficiency".

The Field Board would point out that other Medical Colleges were closed in order that efforts should be concentrated on making an efficient College here. The student body has recently been enlarged by the amalgamation of the North China Union College for Women with the School. Almost all the Missions are participating in the Medical School, and at least half of them in that School only, therefore it is in the Medical School that the University makes its widest contribution to the constituency which it serves. We feel that to limit the number of students as proposed in this resolution, would be an injustice to many of the cooperating Missions, and might be considered a breach of faith on our part.

Therefore an urgent appeal is made that, in preference to the adoption of the policy of restriction in numbers outlined in the resolution above, the provision called for in the resolution of the Medical Faculty appended be supplied:

"That in the opinion of the Faculty, with the following addition to Staff and equipment, entering classes of forty-five could be accepted:

Staff: Assistant or Associate Professors: Two.
Surgical Registrar: One.
Instructors: Seven.
Students Assistants in Pathology: One or more.
Equipment:

a. An additional laboratory of the approximate size of the present bacteriological laboratory.
b. Additional dissecting room space of approximately one thousand square feet, with wash room and assistant's room.
c. Clinical amphitheatre for use in internal medicine.
d. An amount of additional laboratory equipment to the value of approximately Mex. $4000.
e. Increase of appropriations for laboratory expenses of approximately Mex. $2500 per annum.
f. Provision of housing for the above Staff.

It is probable that with the new buildings which we hope to obtain under the extension scheme, we should secure the necessary teaching space, leaving only the question of addition to the Staff to be considered".

In conclusion, we would call the attention of those Missions cooperating only in the work of the Medical School, to the urgency of this need.

508. Commemoration Ceremony.

Voted:—Whereas the present year marks the 60th anniversary of the foundation of the Teng Chow College, and the 20th anniversary of the foundation of the S.C.U. as a Union Institution, the Field Board request the President and Senate to organise a special ceremony in commemoration of these events.

STAFF

509. Vice-Presidency of the University.

Voted:—That the Field Board have heard with thankfulness that Dr. Cheng Ching Yi is giving prayerful and sympathetic consideration to the unanimous and hearty invitation which has been extended to him to take up the position of Vice-President in the University, the support of which office is now assured, and earnestly hope that he may see his way to accept the same.

510. Assistant Professor.

Voted:—That in accordance with the recommendation of the University Senate, a new rank be established in the teaching staff of this institution, in addition to those provided by the Constitution of the Field Board, to be known as that of Assistant Professor, this rank to grade immediately below that of Associate Professor, and to be eligible for election to faculty membership.

511. Staff Appointments.

Voted:—That the Field Board hereby recommend the following appointments:—

(a) *Full Professors.*

That *Dr. Li Tien-lu* and *Dr. Eliza E. Leonard* be granted full professorial rank in the University.

That *Dr. Frances J. Heath* be appointed Professor of Obstetrics and Head of the Department of Obstetrics and Gynaecology in the School of Medicine.

That *Dr. Louis H. Braafladt* be appointed Professor of Pathology and Head of the Department of Pathology in the School of Medicine.

(b) *Associate Professors.*

That *Mr. S. C. Lo* be appointed Associate Professor of Religious Education in the School of Theology.

That *Rev. H. H. Rowley* be appointed Associate Professor of Old Testament in the School of Theology.

That *Rev. F. S. Drake* be appointed Associate Professor of Education in the School of Arts and Science.

That *Rev. W. P. Pailing* be appointed Associate Professor of Materia Medica and Pharmacy in the School of Medicine.

That *Dr. Annie V. Scott* be appointed Associate Professor of Pediatrics in the School of Medicine.

That *Dr. Susan S. Waddell* be appointed Associate Professor of Physiology and Pharmacology in the School of Medicine.

That *Dr. Thornton Stearns* be appointed Associate Professor of Orthopedics and General Surgery in the School of Medicine.

That *Dr. H. W. S. Wright* be appointed Associate Professor of Urology and General Surgery in the School of Medicine.

That *Dr. Helena Wright* be appointed Associate Professor of Gynaecology in the School of Medicine.

That *Mr. B. A. Garside* be appointed Associate Professor of Education in the School of Arts and Science.

(c) *Assistant Professors.*

That *Dr. Pa Ta-chih* be appointed Assistant Professor of Ophthalmology in the School of Medicine.

That *Dr. Wang Hwei-wen* be appointed Assistant Professor of Anatomy in the School of Medicine.

(d) *Faculty Membership.*

That Rev. H. H. Rowley and Mr. S. C. Lo be appointed members of the faculty of the School of Theology; Rev. F. S. Drake and Mr. B. A. Garside members of the faculty of the School of Arts and Science; Dr. Frances J. Heath, Dr. Annie Scott, Dr. Susan S. Waddell, Dr. Helena Wright, Dr. H. W. S. Wright, Dr. Pa Ta-chih and Dr. Wang Hwei-wen members of the faculty of the School of Medicine.

(e) *University Health Officer.*

That *Dr. Han Chung-hsin* be appointed University Health Officer, in place of Dr. C. Titterton Maitland, resigned.

(f) *Physical Director.*

That *Mr. Li Wen-chang* be appointed full-time Physical Director to the University.

(g) *Librarian.*

That the Field Board place on record their appreciation of the services rendered by *Mr. Donald D. Parker,* during his two years occupancy of the post of Librarian.

That *Mr. John C. B. Kwei* be appointed Librarian in his place.

(h) *Assistant Director of Extension Department.*

That the Field Board have heard with great pleasure of the return of *Mr. Tang En-liang* to the staff of the University, and heartily recommend his reappointment as Assistant Director of the Extension Department.

512. Staff of Theological School.

Voted:—a. That the Field Board desire to express their sincere gratitude to the English Baptist Mission for their generosity in releasing the Rev. S. C. Harrisson for service in the teaching staff of the School of Theology during the next two years, and would assure Mr. Harrisson of a hearty welcome in taking up his new duties.

b. That the Field Board desire to express to the Canadian Presbyterian Mission, and to Dr. Murdoch Mackenzie, their warm appreciation of the valuable services which he has rendered in the School of Theology during the past semester, and would earnestly appeal to the Canadian Presbyterian Mission to permit Dr. Mackenzie's return for a further course of lectures during the ensuing term.

513. Staff Furloughs.

Voted:—That subject to the approval of their respective Missions, Rev. J. W. Hunter, Dr. F. H. Mosse, Dr. L. M. Ingle, Rev. A. G. Parker, Jr., and Mr. A. P. Jacot, be permitted to take furlough in the spring or summer of 1925.

514. Rev. A. P. Moor.

Voted:—That the Field Board of Managers reaffirm their action of March 1923, cordially inviting the Rev. A. P. Moor to join the staff of the school of Theology, as recommended by the Departmental Committee of that School, and would earnestly appeal to the American Presbyterian Board to try and secure this appointment.

515. Need of Recruits for Nursing Staff.

Voted:—That the Field Board of Managers would beg to call the attention of the cooperating Missions to the serious need for reinforcement of the foreign nursing staff of the University Hospital, which is at present inadequate for existing work, and will be entirely insufficient to meet the added responsibilities connected with the contemplated extension of the Hospital buildings. They would appeal to the Canadian Presbyterian Mission to make an early appointment of one nurse, in accordance with the promise already made by the Women's Missionary Society of the Board, and would also earnestly request the Society for the Propagation of the Gospel, and the Women's Boards already cooperating in the School of Medicine, to make similar appointments.

516. Superintendent of Works.

Voted:—That the Field Board would place on record their strong conviction that the recent increases in the physical plant of the University, the care of which at present falls upon members of the administrative and teaching staff, necessitate the appointment of a qualified Superintendent of Works, and would appeal to the Joint Boards to lay this need before the co-operating missions, in the hope that such an appointment may shortly be found possible.

517. President's Health.

Voted:—That the Field Board consider it essential that the President should be entirely relieved from the active duties of his office for a period of at least a month during the summer, and hereby request the Senate to make provision for the carrying on of his work for that period.

FINANCE.

518. Financial Support of the University.

Voted:—That the Field Board of Managers desire to express their sincere thanks to the Mission Boards co-operating in the University, and to the China Medical Board, for their continued grants towards the maintenance of its work, also to the British Joint Board and its officers for the persistent efforts which they have made during the past year with a view to promoting wide interest in the support of the University. They note with appreciation the sympathetic consideration which the North American Joint Board are giving to the possibility of developing promotional work in that continent, and earnestly hope that plans may be put on foot during the coming year in order to give effect to this proposal, thus securing needed funds for the consolidation and development of the University's undertakings.

Furthermore, in view of the fact that the general administration, publicity and promotional work of the University obviously claim the help and interest of all cooperating Missions, the Field Board earnestly appeal to each Mission Board, whether contributing to one or more of the University Departments, and who are not already contributing for this purpose, to make an annual additional grant of not less than Mex. $250 towards the general expenses of the University.

519. Revised Scale of Salaries for Chinese Members of Staff.

Voted:—That the Scale of Salaries for Chinese members of Staff, adopted in February 1922 (Minute 332) and subsequently amended by Minute 405, be revised to read as follow:—

Chief Administrative Officers (President, Vice-President or Deans)	$200 to $300	per mensem
Professors	$150 to $250	" "
Associate Professors	$ 90 to $175	" "
Assistant Professors	$ 75 to $150	" "
Instructors	$ 60 to $120	" "
Assistant Instructors	$ 25 to $ 70	" "

520. Bursaries.

Voted:—That the Field Board of Managers note with great interest that both the Joint Boards of Great Britain and North America, in commenting on the subject of students fees, express the hope that poor and deserving Christians might receive help, as the fees increase, by bursaries and scholarship.

For the purpose of information the Field Board would point out that sums of Gold $50 to $100 would be required in individual cases, and confidently appeal to the Joint Boards to raise funds for this purpose.

521. Fellowships.

Voted:—That the Field Board also commend to the Joint Boards of North America and Great Britain the great desirability of establishing a special fund for the granting of Fellowships for postgraduate study in North America or Europe.

522. Additional Microscopes.

Voted:—That in view of the fact that unless more microscopes are provided, the premedical department will find itself unable to enrol a larger entering class than 45, the Field Board earnestly appeal to the Women's Committee to provide funds for the 22 microscopes asked for in the Report of the Dean of the School of Arts and Science, at an estimated cost of Mex. $3300.

523. Work of Extension Department.

Voted:—That the Field Board have been greatly impressed with the growing opportunities for evangelistic, social and educational work represented by the Extension Department, and consider that the time has come when the Department should also be opened in the evening, for the sake of the large masses of population who could be reached at no other hour. They would submit this proposition to the sympathetic consideration of the Interprovincial Conference of the English Baptist Mission, requesting that a special estimate be included towards the extra cost involved: and would at the same time earnestly appeal to the other cooperating Missions to consider the possibility of making a special grant towards this unique form of evangelistic service.

FINANCE.

518. Financial Support of the University.

Voted:—That the Field Board of Managers desire to express their sincere thanks to the Mission Boards co-operating in the University, and to the China Medical Board, for their continued grants towards the maintenance of its work, also to the British Joint Board and its officers for the persistent efforts which they have made during the past year with a view to promoting wide interest in the support of the University. They note with appreciation the sympathetic consideration which the North American Joint Board are giving to the possibility of developing promotional work in that continent, and earnestly hope that plans may be put on foot during the coming year in order to give effect to this proposal, thus securing needed funds for the consolidation and development of the University's undertakings.

Furthermore, in view of the fact that the general administration, publicity and promotional work of the University obviously claim the help and interest of all cooperating Missions, the Field Board earnestly appeal to each Mission Board, whether contributing to one or more of the University Departments, and who are not already contributing for this purpose, to make an annual additional grant of not less than Mex. $250 towards the general expenses of the University.

519. Revised Scale of Salaries for Chinese Members of Staff.

Voted:—That the Scale of Salaries for Chinese members of Staff, adopted in February 1922 (Minute 332) and subsequently amended by Minute 405, be revised to read as follow:—

Chief Administrative Officers (President, Vice-President or Deans)	$200 to $300	per mensem
Professors	$150 to $250	" "
Associate Professors	$ 90 to $175	" "
Assistant Professors	$ 75 to $150	" "
Instructors	$ 60 to $120	" "
Assistant Instructors	$ 25 to $ 70	" "

520. Bursaries.

Voted:—That the Field Board of Managers note with great interest that both the Joint Boards of Great Britain and North America, in commenting on the subject of students fees, express the hope that poor and deserving Christians might receive help, as the fees increase, by bursaries and scholarship.

For the purpose of information the Field Board would point out that sums of Gold $50 to $100 would be required in individual cases, and confidently appeal to the Joint Boards to raise funds for this purpose.

521. Fellowships.

Voted:—That the Field Board also commend to the Joint Boards of North America and Great Britain the great desirability of establishing a special fund for the granting of Fellowships for postgraduate study in North America or Europe.

522. Additional Microscopes.

Voted:—That in view of the fact that unless more microscopes are provided, the premedical department will find itself unable to enrol a larger entering class than 45, the Field Board earnestly appeal to the Women's Committee to provide funds for the 22 microscopes asked for in the Report of the Dean of the School of Arts and Science, at an estimated cost of Mex. $3300.

523. Work of Extension Department.

Voted:—That the Field Board have been greatly impressed with the growing opportunities for evangelistic, social and educational work represented by the Extension Department, and consider that the time has come when the Department should also be opened in the evening, for the sake of the large masses of population who could be reached at no other hour. They would submit this proposition to the sympathetic consideration of the Interprovincial Conference of the English Baptist Mission, requesting that a special estimate be included towards the extra cost involved: and would at the same time earnestly appeal to the other cooperating Missions to consider the possibility of making a special grant towards this unique form of evangelistic service.

524. **List of Needs.**

Voted:—That the following be added to the List of Staff Needs of the School of Arts and Science:

Instructor in Physics . . .	$2,000 per annum.
Teacher of Chinese Literature . .	$2,000 per annum.

525. **Report of the Finance and Property Committee.**

Voted:—That the following report of the Finance and Property Committee be accepted:

(a) *Purchase of House at Present occupied by Dr. Li Tien-lu.*

Whereas the foreign residence at present occupied by Dr. Li Tien-lu was erected partly from undesignated funds contributed through the American Presbyterian Board in connection with the establishment of the University in Tsinan, and partly from the balance of a fund specially appropriated by the Presbyterian Board for the residence of its foreign representatives; and whereas the Presbyterian Board has generously offered to relinquish all claim to the said residence on the repayment of the latter sum (namely Mex. $2,234.65). which amount can be provided without drawing upon further University funds, the Committee recommend that this sum be paid to the Presbyterian Board, for use as they may indicate, and that the ownership of the residence in question be assumed by the University.

(b) *Inadequacy of Present Water Supply.*

An important report was submitted by the Manager of the Power Plant, revealing the serious fact that the recent expansion of the physical plant has imposed demands upon the single Artesian Well and Pump possessed by the University far beyond the limits of safety, with no reserve whatever in case of breakdown of machinery or temporary stoppage of electrical power, thereby exposing the University property to dangerous risk. In view of the fact that the plant of the University is still being added to, and that the contemplated extention of the Hospital will necessitate still further strain

upon an already overloaded installation, the Committee consider that immediate steps must be taken to deal with the situation, by provision of an additional well and pump, together with necessary repairs to the existing machinery and the old well, at an estimated cost of Mex. $9,500. Seeing that a large share of the additional demands on the water supply has been occasioned by the new buildings erected, or to be erected, in connection with the Women's Unit, the Committee would appeal to the Women's Committee to make a grant of G. $5,000 to cover this cost. Meantime, in view of the gravity of the situation, the Committee would recommend that the Power Plant be authorised to incur this expenditure without delay, covering the initial cost by means of an overdraft, the interest upon the same to be met out of the regular charges for the use of water.

(c) *Overdraft on Building Fund.*

The Committee would draw the attention of the Joint Boards to the fact that the statement of the present overdraft on the Building Fund, as contained in Minute 0160 of the Administrative Council, is incorrect, as it has since been discovered that the sum of $10,000 invested in the Banque Industrielle, which it has not so far been possible to recover, is already included in the Bank Balance of the University, and is not therefore available towards the payment of this overdraft, which would need to be increased by this amount in the event of the Banque Industrielle defaulting.

(d) *Reservation of Land for Extension of Women's Unit.*

The Committee hereby endorse the recommendation of the University Senate, that the land on the west of the campus, between the Anglican Hostel and the first row of residences, be reserved for possible future extensions of the Women's Unit.

(e) *Property Tax for Maintenance of Public Services.*

The Committee would recommend that the proposals of the University Senate, with respect to the imposition of a Property Tax for the maintenance of Public Service, be endorsed as follows:—

1. That an annual amount, sufficient to cover the cost of the extension of Electric Light and Water mains, and the depreciation of the Power Plant machinery, be fixed by a special committee to be appointed by the Senate, and that this sum be added to the regular charges for the use of electric light and water.

2. That a tax be imposed upon all property in the University, in order to cover the maintenance of General Public Services (including street lighting, sanitation, upkeep of campus gardens and roads, and the maintenance of the University Gatehouses, night watchman etc.), it being understood that such tax would not exceed a rate of two dollars per annum per one thousand-dollars property value.

(f) *New Leper Hospital.*

The Committee have heard with great satisfaction of the steps which have been taken towards the establishment of a Leper Hospital in close proximity to the University, the land for which has been provided by Chinese friends, and the buildings and annual upkeep of which have been promised by the Mission to Lepers. They understand that the University will be represented upon the Board of Management of this Hospital, the medical care of which will be undertaken by the staff of the School of Medicine, but that the University will not be called upon to bear any financial responsibility in connection with the same. They heartily endorse the proposed scheme, and recommend that the School of Medicine be authorized to take a full share in cooperating in this important service.

526. **Fees for Board in School of Arts and Science.**

Voted:—That permission be granted to the School of Arts and Science to raise the fees for Board by four dollars per semester.

RESOLUTIONS OF THANKS.

527. **Dr. A. A. Lees.**

Voted:—That the Field Board wish to place on record their sincere appreciation of the great assistance which has been rendered in the School of Medicine and University Hospital during the past six months by Dr. A. A. Lees, and to tender to him their grateful thanks for his kind services.

528. **Gift From Lung Hai Railway.**

Voted:—That the sincere thanks of the Field Board be accorded to the Lung Hai Railway authories and to Mr. J. Hers, for the valuable case of specimens of North China timber which they have kindly presented to the Botanical Department of the School of Arts and Science.

529. **Mr. C. W. Anner.**

Voted:—That the sincere thanks of the Field Board be extended to the China Medical Board for their kindness in lending the services of one of their architects, Mr. C. W. Anner, for the preparation of new plans for the extension of the University Hospital; and to Mr. C. W. Anner for the expert advice which he has given.

530. **Officers and Committees.**

(a) *Coopted Members:*

Voted:—That Dr. Chang Po-ling, Dr. Fong Sec, Dr. J. Wong Quincey and Dr. E. W. Wallace be elected as coopted members of the Field Board for the ensuing three years.

(b) *Officers for Ensuing Year:*

Voted:—That the following officers be elected for the ensuing year:

Chairman: Bishop T. Arnold Scott.
Vice-Chairman: Dr. Fong Sec.

(c) *Administrative Council:*

Voted:—That the following be elected members of the Administrative Council for the ensuing year:

Bishop T. Arnold Scott (Chairman)
Rev. Paul R. Abbott
Rev. A. J. Garnier
Miss Hobart
Dr. Chang Po-ling
Rev. R. A. Mitchell
Dr. Lois Pendleton
Rev. C. G. Sparham
Mr. Sung Hui-wu.
together with the President of the University ex-officio.

(d) *Finance and Property Commtitee:*

Voted:—That the following be elected members of the Finance and Property Committee for the ensuing year:

Rev. Paul R. Abbott
Rev. A. J. Garnier
Dr. Lois Pendleton
President and Treasurer ex-officio.

— — — — — — — —

The meeting of the Field Board of Managers was adjourned on Thursday 19th of June, to meet again at the call of the Chairman.

After the adjournment of the Field Board, the following additional recommendation of the Finance and Property Committee was voted upon by circulation and approved:—

531. Enlarged Hospital Scheme.

Voted:—That the General Scheme of reorganization of Hospital, as outlined by Mr. C.W. Anner, Architect to the China Medical Board, be approved in principle and submitted to the Joint Boards, with the request that it be made the basis of an appeal to the China Medical Board for their favourable consideration and financial assistance.

Estimated Cost of Enlarged Hospital Scheme.

Hospital Building for 200 beds for men and women	Mex. $200,000
Private Patients' Pavilion	30,000
Mechanical plant, including heating, electric generator, steam for sterilisers	60,000
Furniture and equipment in addition to that already in use	30,000
Re-modelling of present hospital and Out-Patient Department	30,000
Additional residence	13,000
Well and pump	10,000
Addition to nurses' dormitories	7,000
Removing and re-erecting some existing buildings	17,500
Gas Plant	1,500
Architects fees and contingencies	26,000
	$425,000

SUMMARY OF THE BUDGET
for
The Fiscal Year July 1st, 1924 - June 30th, 1925

I.	General University.		
	A. Administration	$29,450.	
	B. Augustine Library	3,732.	
	C. Maintenance Buildings for Gen. Use	2,430.	
	D. General University Services	3,700.	$39,312.
II.	School of Arts and Science		
	A. Administration	5,600.	
	B. Instruction	56,420.	
	C. Maintenance	7,040.	
	D. Special Contingent	1,500.	$70,560.
III.	School of Theology		
	A. Administration	4,750.	
	B. Instruction	19,325.40	
	C. Student Centre	620.	
	D. Maintenance	1,200.	$25,895.40
IV.	School of Medicine		
	A. Administration	16,326.	
	B. Instruction	99,148.	
	C. Maintenance	8,650.	$124,124.
V.	University Hospital		
	A. Administration	14,720.	
	B. Evangelistic	1,200.	
	C. Nursing	8,400.	
	D. Instruments	3,800.	
	E. Medical Apparatus	300.	
	F. Pharmacy	7,000.	
	G. X-Ray	1,000.	
	H. Out-Patient Dept.	1,000.	
	I. Employees' Welfare	50.	
	J. Samaritan Fund	800.	
	K. Kitchen	8,000.	
	L. Laundry	1,600.	
	M. Maintenance	11,100.	$58,970.
VI.	Extension Department		
	A. Administration	8,440.	
	B. Instruction	2,700.	
	C. Maintenance	2,300.	$13,440.
			$332,301.40
	Less Transfers		9,500.
			$322,801.40

UNIVERSITY NEEDS.

Capital Expenditure.

General University.

Installation for Fire Protection and Additional water supply	.	$ 19,000
Residences for Chinese staff	. . . .	" 20,000
Additional Dormitory Court	. . . .	" 40,000
Completion of Commons Buildings	. . .	" 20,000
Bath-houses and Toilets	. . . . .	" 5,000
Auditorium and Students' Y. M. C. A. Building	.	" 100,000
Office Equipment	. . . . .	" 1,000
Gas Plant	. . . . .	" 10,000

School of Arts and Science.

Equipment of Temporary Middle School Dormitories		" 1,260
Middle School Class-rooms	. . . . .	" 20,000
" " Dormitories	. . . . .	" 15,000
Heating System for Physics Building	. . .	" 10,000
Microscopes for Department of Biology	. .	" 3,340

School of Medicine.

Houses for Chinese Staff	. . . . .	" 10,000
Male Nurses' Home	. . . . .	" 15,000

Extension Department.

Lecture Hall (with equipment).	. . .	" 55,000

Annual Appropriation.

General University.

Balance of Vice-President's Allowance	. . .	$ 1,600

School of Arts and Science.

Increased appropriation for Senior Science work	.	" 2,000
" " " Department Assistants	.	" 2,000
Half-time stenographer (foreign)	. . . .	" 1,000
Instructor in Physics	. . . . .	" 2,000
Teacher-Chinese History	. . . . .	" 960
" Economics	. . . . .	" 1,800
" of Chinese Literature	. . . .	" 2,000
Grant for Middle School expenditure	. . .	" 2,500

School of Medicine.

1 Dentist.
1 Business Woman.
1 or 2 Nurses.
1 Instructor, Radiology.

School of Theology.

Teacher—Church History.	
" Pastoral Theology.	
" Biblical Exegesis.	
Half-time stenographer (foreign)	$1,000

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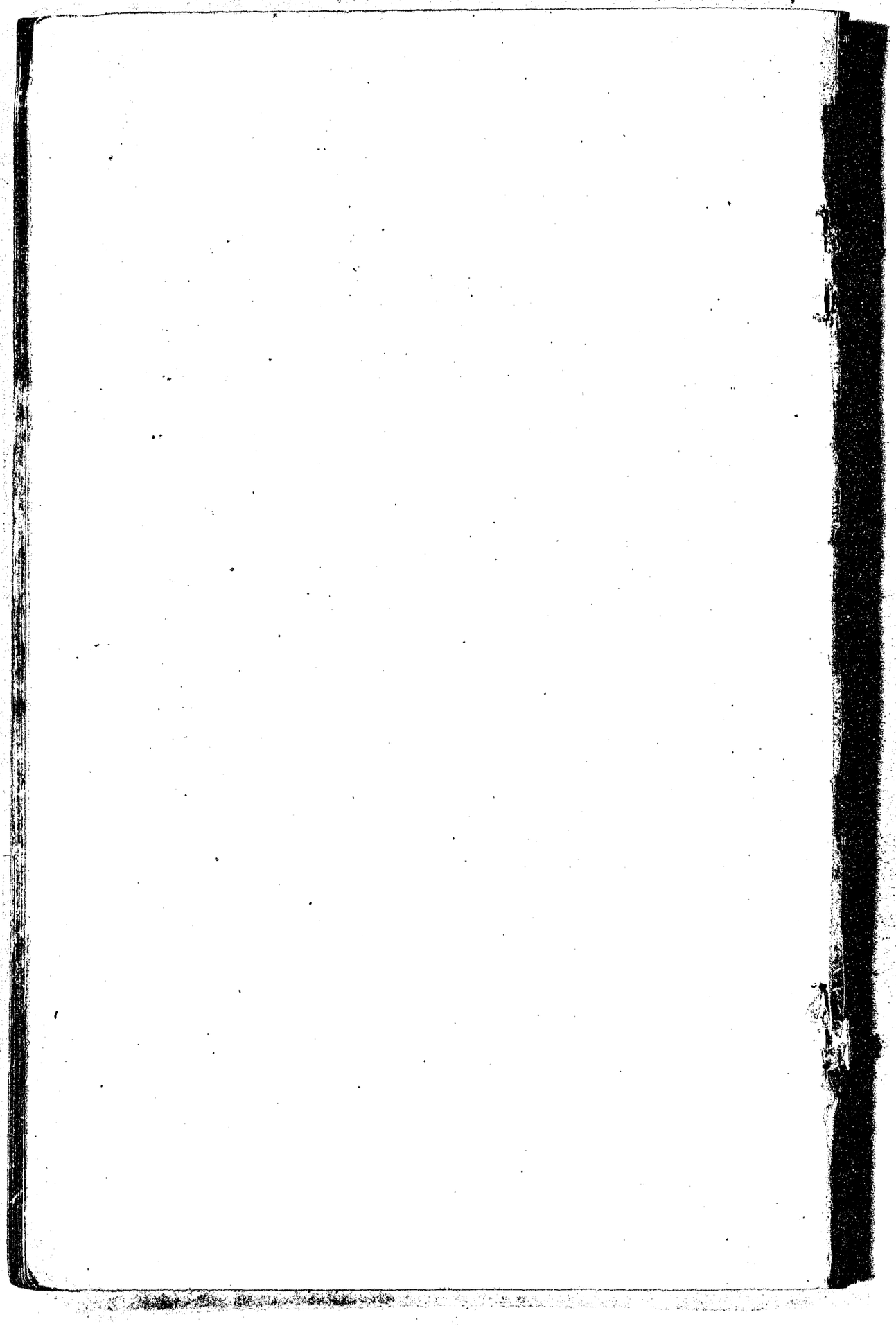
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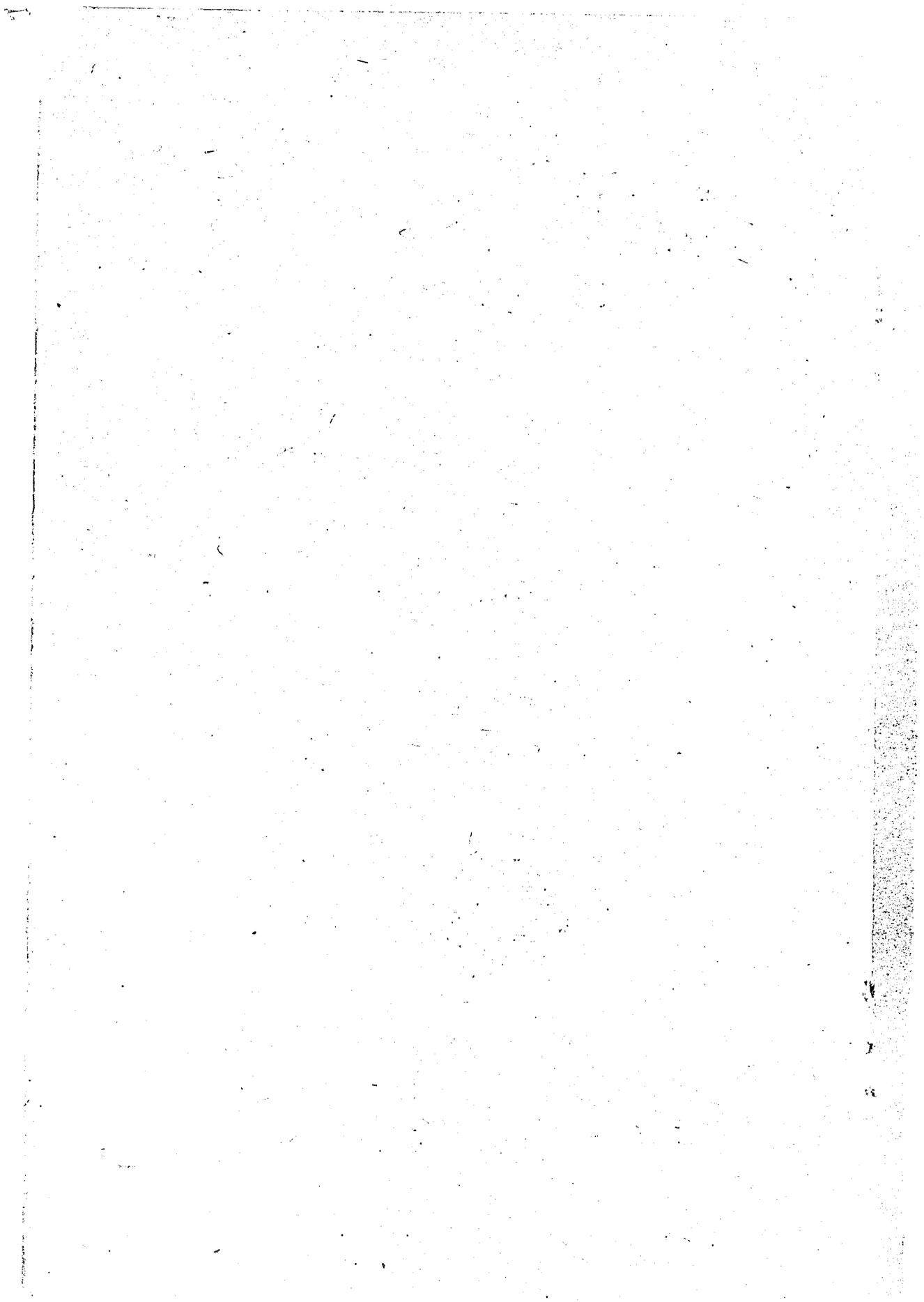
SHANTUNG CHRISTIAN UNIVERSITY BULLETIN

No. 42

PRESIDENT'S REPORT

JUNE 1924

Printed at The University Press.



Shantung Christian University

President's Report-1923-24

To the Field Board of Managers, and the Joint Boards of North America and Great Britain.

Ladies and Gentlemen,

In days like the present when destructive and divisive forces are only too apparent, and when the stability and progress of the Chinese Republic and the unity of the Christian Church are both alike constantly jeopardized, it is with a profound sense of gratitude to God that we are able to record a year of steady advance and of unbroken harmony in the work of the Shantung Christian University.

We celebrate this year the twentieth anniversary of that great act of faith and of spiritual adventure which first brought the Union into being, and as we look back upon the two decades which have passed, we cannot but wonder at the vision which inspired its founders and the remarkable results which have followed upon their audacious experiment in spiritual co-operation.

In those early years the attempt to combine the forces of two widely differing missions in the work of Christian Higher Education was viewed with considerable trepidation in some quarters, and attention was often focussed upon the safeguarding of particular interests rather than upon the common life of the whole. As the experiment progressed, however, a spirit of confidence and of mutual regard rapidly developed; apprehensions were allayed, protective safeguards found unnecessary, and the practical meaning of spiritual fellowship discovered. To-day, in place of two co-operating Missions, we speak with thankfulness of an institution in which no less than twelve Christian organizations are joining forces, in which Chinese, Americans, Canadians, English, Scots and Welsh are forming a united faculty, and in which Presbyterians and Baptists, Anglicans and Methodists, Congregationalists and Lutherans are each making their distinctive contributon. No longer is it necessary, within

this united body, to attempt to delimit a zone of common agreement, from which all points of difference are carefully excluded. Rather is it true to say that in our very diversities we have found the full enriching of our corporate spiritual life, "the due activity of each part enabling the Body to grow and build itself up in Love."

This spirit of unity, which has been handed down to us as a sacred trust by those who have gone before, is of all our possessions the one most highly prized and jealously guarded, and particularly so in view of the delicate problems of adjustment which to-day are confronting all organisations in which Chinese and Westerners are mutually co-operating. It is probably true to say that in the new decade upon which we are now about to enter there will be no task which will so seriously challenge our spiritual resources as that of developing a full sense of proprietorship, on the part of our Chinese colleagues, for an enterprise which they do not wholly control. It is only in the atmosphere of true co-operation and mutual esteem that such a problem can be solved. It is with great thankfulness, therefore, that it is possible to open this report with the profound conviction that the outstanding feature of the past year has been the steady growth of the spirit of fellowship amongst those who are united in carrying on the work of the University.

There have been various means by which this spirit of fellowship has found expression, the most important of which was the Staff Retreat with which we opened the autumn term, when a large number of faculty members met together for three days at a hill resort a few miles from Tsinan, for mutual conference and prayer upon our common spiritual task. The main topic of the Retreat was "The Spiritual Output of the University", and as we lived and prayed together we endeavoured to discover the mind of God as to the chief hindrances preventing a larger spiritual fruitage from the work of the institution, and the means by which we ourselves could more adequately fulfil our large opportunities and responsibilities. Various meetings have since been held, in order to follow up the work of the Retreat; and one important practical result has been the organizing of Discussion Groups, each consisting of both Chinese and Westerners, who have met at one another's houses at fortnightly intervals during the year for the joint consideration of religious and other problems.

A similar Retreat was held last October for representative leaders of the Student Y. M. C. A.s and of the Faculties. At this gathering we were favoured with the presence of the National Student Y. M. C. A. Secretary, Mr. T. Z. Koo, whose contribution to our conference was most valuable. As a result of this Retreat, not only have the Faculty Advisors and Student Y. M. C. A. leaders been drawn more closely together, but a joint meeting for prayer has been held each Sunday evening throughout the school year, which has brought about the linking together of the Y. M. C. A. and Y. W. C. A. groups into a closely federated Student Christian Association for the whole University. This body will form the mouthpiece of our various Student Christian organisations, and will help to weld them together into a strong united body, the influence of which, both upon the non-Christian students in the University and the important student field in the Government Schools of the city, will, we believe, become more and more felt in the ensuing years. It is an interesting fact, and significant of the large part which co-education is taking in all phases of the University life, that the first President of this University Student Christian Association is one of our women students.

In attempting to review the work of the last twelve months, it is impossible to do more than comment briefly upon the salient features.

University Charter and Incorporation

During past years the Shantung Christian University has laboured under the disability of possessing no official Charter, thus being deprived of the authority to confer academic degrees, or to hold property in its own name. Various attempts have been made from time to time to secure such a Charter from the Chinese Government, but these have proved unavailing. It was therefore decided to attempt to secure such recognition from the West, and a year ago, at the instance of the North American Joint Board, steps were taken with a view to petitioning the Dominion Government of Canada for the granting of a Charter and the Incorporating of the University under a Board of Governors. This matter has been forwarded on our behalf, with great devotion and ability, by the Secretary of the North American Joint Board, Dr. George Scott, whilst Sir John Jordan, Mr. Roger Greene, the Rev. A. E. Armstrong and other friends of the University have also rendered conspicuous assistance, to all of whom we are under a deep debt of gratitude. A Draft Bill has been

prepared by a firm of Toronto lawyers, and is now before the Canadian Parliament, which, whilst preserving the main features of our present constitution, will confer official status upon the University and enable it to function as a recognised institution of higher education. The Dean of our School of Theology, Rev. J. D. MacRae, who is fortunately in Canada at the present time, will watch the progress of the Bill through its committee stage, and it is confidently hoped that it will receive parliamentary sanction during the present session. The value of such a Charter to the students of the University is too obvious to require comment.

Commencement of Co-education.

In the Report which was presented to you last year, mention was made of the successful negotiations which had resulted in the amalgamation of the North China Union Medical College for Women with this University. This amalgamation went into effect in September last, when the first class of women medical students was received. At the same time a large class of women premedical students was admitted, and, by special action of the Field Board, the School of Theology was permitted to open its doors to a small group of women students who wished to avail themselves of the opportunities afforded there. Thirty-two women students were received altogether during the autumn semester, whilst in February of the present year the remaining two classes from the Women's Medical College, consisting of 15 students, were transferred to our School of Medicine. At the same time our staff was greatly reinforced by the accession of six women teachers, detailed reference to whom is contained in another section.

A special Women's Committee has been formed in China, with representation upon the Field Board of the University, in order to look after the special interests of our women students; whilst a similar committee has been organized in North America and has already made a large contribution towards the support of women's education in this University.

In spite of the sincere doubts which had existed in some quarters as to whether the time was ripe for so wide an experiment in co-education, the results have abundantly justified the foresight of those who advocated this step. The women students have taken their place in the life of the University with a quiet dignity and self-possession which it would be difficult

to match in any other country, and their presence on the campus and in the classrooms has brought a new influence into our midst which is quite out of proportion to their actual numbers. In embarking upon this experiment we have been peculiarly favoured in having the presence of two experienced administrators, Dr. Luella Miner and Dr. Eliza Leonard, and it is to their wise counsel and efficient management that we owe the striking success of this new enterprise.

In scholastic ability, and in faithful work the women students have easily held their position with the other students, to whom their competition has provided a valuable stimulus.

In view of the wide demand which exists for well-trained women workers in all sections of the Church, and especially in the teaching profession, it is earnestly hoped that the Boards will grant permission for the other departments of the University to be similarly thrown open to students of both sexes.

Staff Changes.

In the School of Arts and Science, for the first time in our history, we have had the pleasure of welcoming as our new Dean a distinguished Chinese educationalist, *Dr. Li Tien-lu*, a graduate of Peking and Vanderbilt Universities, and formerly Principal of Peking Academy. Dean Li has not only thrown himself into every phase of the School's activity with characteristic enthusiasm and ability, but has rendered inestimable service to the spiritual life of the whole University.

The School of Theology has received greatly added strength by the coming of *Dr. Luella Miner, D. Litt.*, formerly Dean of Yenching Women's College, who has been appointed to a professorship in Religious Education; *Mr. S. C. Lo, M. A.*, one of our own graduates from the Arts School, who subsequently studied at Columbia University and did valuable work in France with the Chinese Y. M. C. A., and who also joins the Department of Religious Education; and *Rev. H. H. Rowley, B. A., B. D.*, who, after a distinguished scholastic record at Oxford has been in the home pastorate for six years before coming out to China. The Theological School has also received valuable help from *Dr. Murdoch Mackenzie*, of the Canadian Presbyterian Mission, and from various special lecturers.

The staff of the School of Medicine has been greatly augmented by the addition of representatives of the Peking Women's Medical College, as well as from other sources, its new members being:—*Dr. Eliza E. Leonard, A.B. (Parsons College), M. D. (Michigan)*, formerly Dean of the North China Union Medical College for Women, and recently appointed as the first Dean of Women in this University; *Dr. Frances Heath, A.B. (Temple University), M.D. (Women's Med. Coll., Penn.)*, and *Dr. Julia Morgan, M.A. (Dickinson College), M. D. (University of Penn.)*, both of the Methodist Women's Board; *Dr. Annie Scott, B. S. (University of N. Carolina), M.D. (Women's Med. Coll., Penn.)*, and *Dr. Susan S. Waddell, A.B. (Wilson Coll.), M.D. (University of Pittsburgh)*, both of the Presbyterian Women's Board; *Dr. Han Chung-hsin*, one of our own graduates, who subsequently studied in Great Britain and secured Diplomas in Hygiene and Tropical Medicine in Cambridge and London; and *Miss Gladys L. V. Nunn*, a trained nurse and skilled masseuse, who has been appointed by the Wesleyan Methodist Women's Auxiliary for work in the Department of Radiology and Electrotherapeutics. The School of Medicine has also received valuable assistance throughout the year from Dr. A.A. Lees, whose services have been kindly lent by the English Baptist Mission.

In addition to the above, the *Rev. Henry Payne*, of the English Baptist Mission, has taken entire charge of the Extension Department during the absence on furlough of the Director, Rev. J. S. Whitewright; *Mrs. Henry Payne* has rendered excellent service in the Department of English in the School of Arts and Science, and has recently been appointed a full member of the Faculty of that School; *Mr. Elliott F. Parker B.A.* has given valuable assistance as part-time teacher of English in the same School; and *Mr. John C.B. Kwei, B.A.*, a graduate of Boone University Library School, has become our Assistant Librarian. At the same time we have had the great pleasure of welcoming back *Mr. Tang En-liang*, who has resumed his former position as Assistant Director of the Extension Department.

Whilst welcoming the arrival of so many members of staff, we have to deplore the sad loss, through death, of two valued workers in the University, *Mrs. William Chalfant*, widow of one of the most beloved leaders in the early days of the Union, and herself a most earnest and

enthusiastic teacher in the School of Arts and Science, and *Mrs. J.S. Whitewright*, wife of the Director of the Extension Department, who has been identified with all the many-sided activities of that unique form of missionary service since its inception, and whose generous good-nature and large heart endeared her to every member of the University staff.

We also regret to record the resignation of *Dr. C. Titterton Maitland*, whose appointment was announced in last year's report; *Miss Margaret Wilson*, who completed her term of service as Assistant to the Treasurer and Registrar; *Rev. Chang Ssu-ching*, Head of the Students' Social Centre; *Mr. Hwa Pao-tai*, and *Mr. Wang Chang-hai*, assistant instructors in the school of Arts and Science.

Our indefatigable Treasurer, *Mr. Paul C. Cassat*, who has served the University in so many capacities, had a serious breakdown last year, which has caused his absence from the field since that date. We are hoping, however, that he may be well enough to return during the forthcoming year. *Miss Pollard*, a member of the University Hospital Nursing staff, who has been away from duty through ill-health for a long period, will also, we trust, be sufficiently well to return to her work this autumn.

New Buildings.

A commodious and well-appointed Dormitory Building with accommodation for over 60 women students, and including a suite of rooms for three foreign teachers, has been erected in the northwestern corner of the campus, and a residence for three other teachers has been built on a site adjoining. Both of these new buildings have been provided from funds supplied by the Women's Committee in New York, who have received in all a sum of over G. $200,000 from the Presbyterian and Methodist Women's Boards, the Joint Drive for the Women's Colleges of the Orient, and the China Medical Board. The remainder of this sum is to be applied to large extensions of the University Hospital, for which plans are now being prepared. These new buildings represent a most valuable addition to the property of the University.

Three foreign residences have also been erected during the past year by the Presbyterian Mission Board, North, and four houses are now in course of construction, two being for the representatives of the English Wesleyan and Lutheran United Missions, and two for Chinese members of the medical staff. There still exists serious need for small semi-foreign houses, such as could be used by either Chinese or western members of faculty.

The University and its Alumni.

Although the history of the University may be said to extend back to the founding of the old Tengchow College in 1864, and its alumni now number nearly a thousand, it has been difficult in the past to establish any close links between them and the University, owing to the fact that the greater number of them owe their allegiance to the older colleges whose identity has been lost in the larger organization. During the last two years, various steps have been taken with a view to remedying this state of things.

In the first place I have made it part of my duty to take a country tour each term, including on each occasion as many centres as possible where former graduates are now working. At each centre that I have visited I have gathered together these old alumni for conference upon the present work of the University, with a view to supplying recent information as to our activities and plans, and at the same time listening to any criticisms or suggestions which they might offer. It has been a matter of great encouragement to notice the keen response which these visits have evolved, and to realise something of the true affection which our graduates cherish towards their alma mater.

During one of these visits, a petition was presented by the local branch of the Alumni Association, requesting that a special diploma be given to the graduates of the older colleges now incorporated in the Shantung Christian University, recognising them as bona fide alumni of the University. This request has since been granted by the University Boards, and Diplomas of Recognition are to be presented to all former alumni.

Another important means of keeping our graduates in touch with the University has been the inauguration of a University Magazine,

known as *"Cheeloo"*, the first number of which was issued in April last. An Editorial Board has been formed for the management of this paper, upon which Mr. B. A. Garside and Mr. Chang Li-wen are the active spirits, and alumni and students are alike assisting in its production.

The most encouraging sign of the new interest which is being aroused amongst the alumni has, however, been their decision to erect an Alumni Gate at the entrance to the University, at a cost of approximately $2,000. This is the first occasion upon which they have themselves undertaken a share in the capital expenditure of the institution, and their action has been keenly appreciated by every member of the University staff, as well as by the controlling Boards. The new gate, which is a very handsome structure, is to be dedicated on June 17th, which will form our first Alumni Day, and we hope that this may be the precursor of many similar functions in the future and may lead the way to a fuller understanding and deeper spirit of co-operation between our old graduates and their college. A large number of these men are serving the Church of Christ in positions of importance in various parts of China, and we earnestly desire to secure their counsel and support in the affairs of the University.

Student Enrolment.

Our entering class in September last numbered 124 in all, and formed the largest class that has been received in the University since the schools were transferred to Tsinan. Of these 124 students, 69 entered Pre-medicine, 26 General Arts and Science, 25 Theology and 4 Medicine. (Students entering the School of Medicine from our own Pre-medical Department are not included in this last figure.) With the addition of these new students, our total enrolment for the autumn semester amounted to 350, divided as follows:—

School of Theology		45
School of Arts and Science:		
General Arts and Science students	105	
Pre-medical students	102	207
School of Medicine		94
Special students		4

It is interesting to note that these 350 students came to us from 17 provinces and from 94 Middle Schools and that between them they represented 21 different Churches or Missions, 41 Students (12%) being non-Christians.

This enrolment of students practically filled our dormitories, and if our entering classes of the future continue to be as large, the problem of increased dormitory accomodation, or of providing facilities for non-residential students, will become an acute one.

College Spirit and Religious Life.

Of all the varied tasks which lie before this University there is none more pressing or more vital than the cultivation of a strong and enthusiastic college spirit, and the deepening of the spiritual life of our students. We have by no means reached a solution of this problem as yet, though it is ever uppermost in our minds. A large number of factors add to the difficulty of this task. The growing national consciousness of the student body of China, aggravated as is too often the case by unfortunate incidents between China and the Western Powers and by the censorious attitude habitually adopted by the foreign press in this country, impair the friendly relations which might otherwise exist between our students and the foreign members of staff. The fact that our students are drawn from so many different parts of China often gives rise to provincial jealousies and exclusiveness. A superficial rationalism, coupled with the moral temptations inseparable from life in large cities, is apt to sap the spiritual vitality of those who have not been brought up with a fearless regard for truth, and who do not possess a strong religious experience. To this must be added the habit of mind often met with in a particular type of students, and fed by adulatory and ill-advised references to so-called leadership, in which the possession of knowledge as a solemn trust on behalf of the common weal is apt to be lost sight of.

Although progress has been slow, and the end is not yet in sight, there have been gratifying signs of advance in some directions. The absence of any serious breaches of discipline throughout the year; the activities of the students' Y. M. C. A., particularly in the School of Medicine; the support which has been given by groups of men and

women students to the work of the Students' Social and Religious Centre and the Daily Vacation Bible Schools; and the development of a stronger interest in University Athletics have all been encouraging features in the work of the year, whilst the significant fact that 32 out of our 42 graduates for this year are taking up direct Christian service, whilst others of the remainder are hoping to do the same after further postgraduate study, is a matter for sincere thankfulness.

University Chapel.

The Kumler Memorial Chapel, which was dedicated for public worship a year ago, has proved of inestimable benefit to the whole University community. It has been kept open daily throughout the whole year, and an attempt has been made to encourage students to utilise it as a place for quiet meditation and prayer as well as for the regular Chapel services. The students and staff of the Arts and Science and Theological Schools have met there each morning for daily worship, whilst on Wednesday morning the three Schools have combined, and a somewhat longer service has been held. The attendance at these services, and on Sunday mornings, has on the whole been well maintained, and they have been marked by a deepening spirit of devotion. A special effort has been made to foster a habit of reverence in connection with religious worship—so sadly lacking in many modern churches—, and, with this end in view, conversation and social intercourse are prohibited in the Chapel, and the Sunday Services are always opened with a period of silent prayer.

A University Choir has been organised, to lead the singing, for the training of which the British Consul-General, Mr. Berthold Tours, has most generously contributed his services, ably assisted by the Rev. J. W. Hunter as organist. This has resulted in a marked improvement in the musical part of our services, and has added greatly to the dignity of our united worship.

University Athletics.

The action which was taken by the Field Board eighteen months ago, in making athletics compulsory throughout the whole University, is already bearing excellent fruit. Thanks to the enthusiastic and

efficient work of Mr. Li Wen-chang, who has been appointed full-time Physical Director, interest in athletics is definitely extending, and during the recent Athletic Meets at Kaifeng and Wuchang, we had the pleasure of seeing our University representatives carry off the second place in the College Division for North China, and third place in the whole country. These successes have provided an excellent stimulus to the students, and next year, when the North China Meet is to take place in Tsinan, we shall hope for still better results.

Service for the Community.

The University has attempted, in various directions, to fulfil its large responsibility towards the community in which it is located. Its chief form of service has been offered through the instrumentality of the Extension Department and University Hospital. More than half a million people have visited the Institute during the year; 2,400 evangelistic addresses have been delivered there; whilst the Lantern Services on Sunday evenings have reached approximately 20,000 people, and the various lectures on matters of public interest have attracted audiences totalling about 25,000. In the hospital 1,399 in-patients were cared for during the year, whilst over 31,000 visits were paid to the out-patient clinics. Other forms of community service have been rendered in connection with the Social and Religious Centre, where a day-school, a night school, and a half-day school for women have been carried on; the preaching centre at Lung Shan, conducted by students of the Theological School; the co-operation of the University in the work of the Shantung Board of Christian Education; the Popular Lecture Course, given weekly by members of the University Faculty; and the Bible Classes, Evangelistic Services, Correspondence Courses and other activities undertaken by various members of the staff and student body.

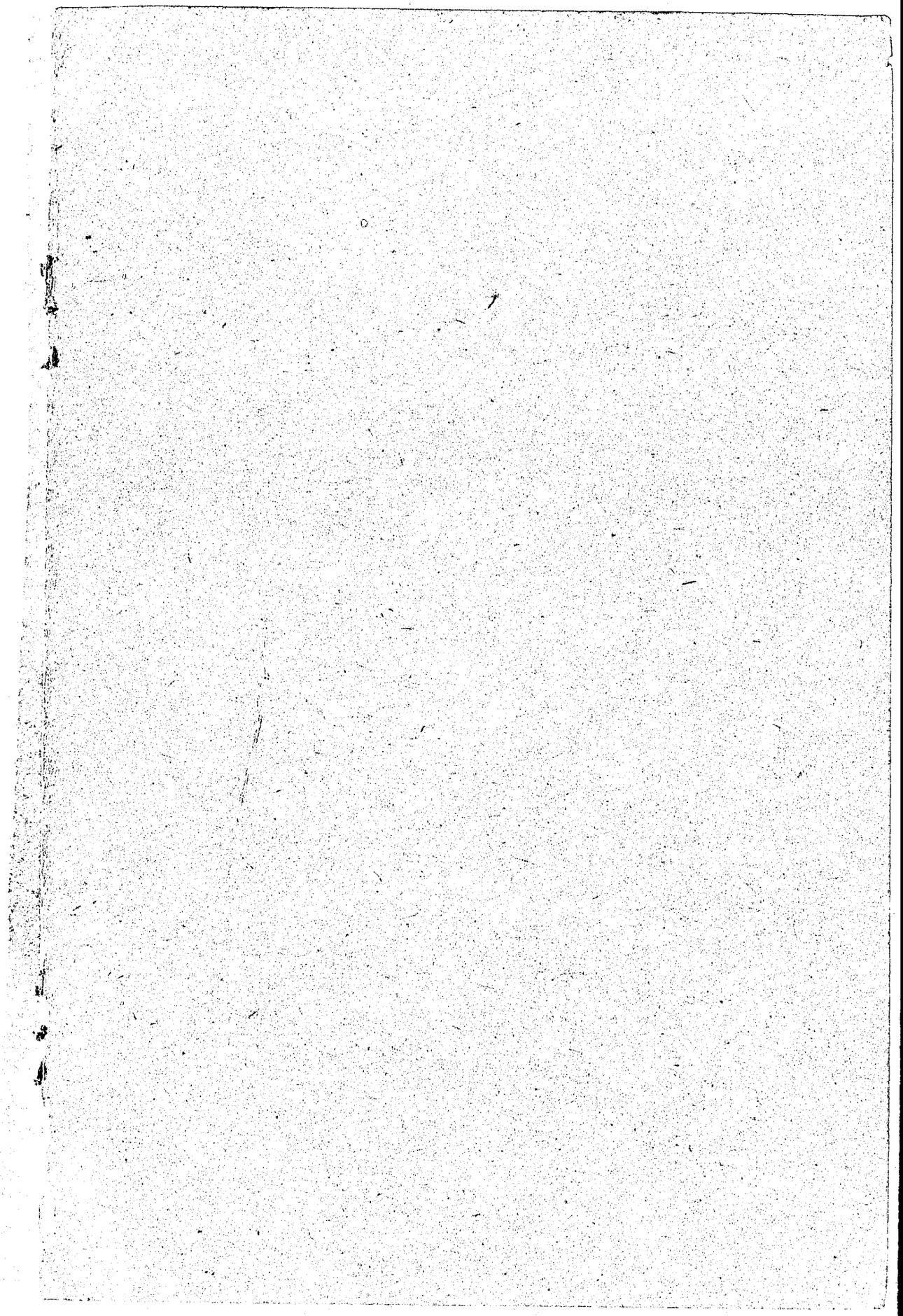
One new feature which is worthy of special note was the Summer School held at the University during last July, in which members of our staff and of the staff of Peking University both co-operated and which was attended by 221 men and women, mostly teachers from mission schools. Post-graduate classes were also held during the summer for medical men, and the University co-operated in a four-weeks School of Health Education.

It is impossible to close this report without expressing our sincere thanks to the various Boards in North America and Great Britain, including the China Medical Board of the Rockefeller Foundation, whose continued support has made it possible for us to maintain the work of this University within our income. The problem of finance is by no means an easy one, and the very success of the institution brings fresh demands upon our resources. Particularly is this true in the case of the newly established Department of Education, to which mission schools in all parts of the country are eagerly looking, as the need for raising their standards by means of well-qualified Christian teachers becomes more and more urgent. So far, that Department has been unable to respond to that demand, owing to the inadequacy of expert teaching staff and insufficiency of resources for practice teaching. During the coming year the Department will be sufficiently manned to attack the problem, and if, as is confidently hoped, funds are provided for the opening of Middle School classes, offering facilities for practice teaching, we trust it will not be long before an increasing number of expert teachers are produced.

The capital fund which the University formerly possessed for the provision of land and buildings and equipping of its departments has now been entirely exhausted, and the time has come when the securing of further resources for such purposes and for the endowment of the institution is imperatively needed. Any attempt to procure such funds, however, cannot be lightly undertaken. It can only be justified in so far as due regard is paid to the possibility of close co-operation with other institutions of Higher Education in China, and to the ability of the Chinese Church eventually to take over the support of the whole University. With this end in view the policy of the University must ever be concentrated upon the direct service of the Christian community; but that service can never be faithfully performed unless we are able to maintain a standard of full educational efficieney, whilst at the same time making a contribution which is positively and aggressively Christian, both in motive, in method and in objective.

Respectfully submitted,
Harold Balme
President.

June 1924.



ASSOCIATED BOARDS

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SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

Entrance Regulations

1925

University Bulletins - No. 45

PRINTED AT THE UNIVERSITY PRESS

SHANTUNG CHRISTIAN UNIVERSITY 1925
(Entrance Regulations) University Bulletin #45

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SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

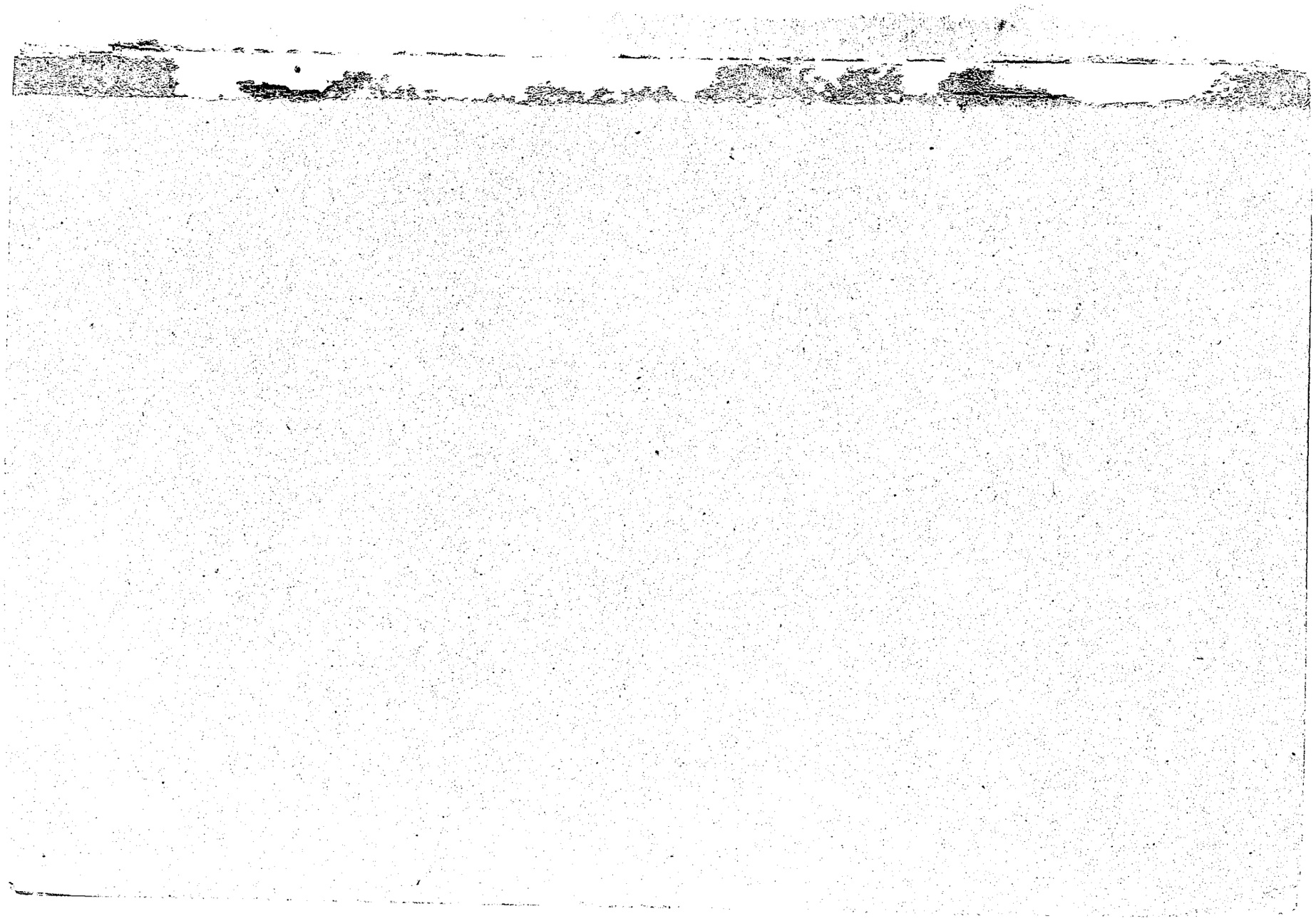
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SHANTUNG CHRISTIAN UNIVERSITY

ENTRANCE REGULATIONS

THE UNIVERSITY CALENDAR

1925, 1926.

1925

February 5th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 6th, Friday	Recitations begin.
April 4th, 5th, 6th, Saturday, Sunday, Monday	Tsing Ming Holidays.
April 10th	Good Friday.
April 24th, 25th	North China Field Meet.
May 9th, Saturday	National Humiliation Day.
June 6th, Saturday	Last day for receiving applications for Entrance Examinations.
June 11th, Thursday	Spring Semester closes, Commencement Exercises 10 a.m.
July 1st Wednesday	Summer School begins.
July 6th, 7th, 8th	Entrance Examinations.
July 29th, Wednesday	Summer School closes.
September 17th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.
September 21st, Monday	Confucius' Birthday.
October 9th, 10th	National Holidays. Inter-Middle-School Track and Field Meet.
December 24th, 25th, 26th	Christmas Holidays.

1926

January 1st, Friday	New Year's Holiday.
January 28th, Thursday	Fall Semester closes.
February 13th, Saturday	Chinese New Year.
February 18th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 19th, Friday	Recitations begin.
April 2nd	Good Friday.
April 4th, 5th, 6th, Sunday, Monday, Tuesday	Tsing Ming Holidays.
April 24th, Saturday	Field Day.
May 9th, Sunday	National Humiliation Day.
June 5th, Saturday	Last day for receiving applications for Entrance Examinations.
June 16th, Wednesday	Spring Semester closes, Commencement Exercises 10 a.m.
July 5th, 6th, 7th	Entrance Examinations.
September 16th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.

ENTRANCE REGULATIONS

I. GENERAL REGULATIONS

Admission to University. Admission to Shantung Christian University from middle schools is by the general matriculation examination, or by certificate. In addition, the student's school record for the six years of middle school work must be presented, and the evidence of this record will have considerable weight in his acceptance or rejection. The other method of gaining entrance, by transfer from another college, will be taken up later.

First:—The student wishing to enter the University should procure application blanks from the Director of Admissions. These blanks should be filled out and sent to the Director as soon as possible, but the third blank (school record) should be sent only after the student has finished his middle school course, so that the records therein may be complete.

Second:—If the student is to enter by examination, he should select the two subjects in which, in addition to the three compulsory examinations, he will sit for examination. He should make sure that he has received a receipt from the University for the examination fee of one dollar, and that both he and the University know at which centre he will sit for examination and in which subjects he will be examined. If the student is to enter by certificate, he should make sure that the certificate as well as the application blanks are filled out and sent to the University several months before the date of entrance, so that there may be no delays in entrance in case questions arise in connection with these papers.

Third:—After the University has accepted the results of the examination and the records on the blanks as satisfactory, and has informed the student of this fact, the student should come to the University at a date early enough to ensure the taking of the University medical examination in the week preceding registration, the securing of a dormitory room, and the registration and payment of fees on the prescribed date.

The scholastic work of Shantung Christian University is carried on in three Schools:—the School of Arts and Science, the School of Theology, and the School of Medicine. The work in the School of Arts and Science presupposes six years of middle school work. The entrance examinations are based on this amount of preparatory work, and application blanks should give evidence of this amount. Only under exceptional conditions, carefully stated, will admission be granted to students with less preparation.

The work in the School of Theology presupposes at least a one-year Pre-Theological Course of college grade. This course may be taken in the School of Arts and Science, and it has the same general entrance requirements as the other courses in that School. The work in the School of Medicine presupposes a two-year Pre-Medical Course. This course may also be taken in the School of Arts and Science, and it has the same general entrance requirements as the other courses in that School.

Application for Entrance. Candidates for entrance to any of the Schools or courses of the University are required to present an Application for Entrance, made on the blank forms furnished by the University, which will be supplied by the Director of Admissons. This Application for Entrance is in three parts:—(A) An application blank to be filled out by the candidate; (B) A medical certificate filled out and signed by a qualified physician; and (C) A certificate of the scholastic work and moral character of the candidate to be filled out by the principal or headmaster.

Application for admission (A) must be accompanied by the medical certificate (B), and by a photograph of the candidate duly certified by the applicant and by the principal or headmaster of the school last attended. If the applicant expects to enter by the matriculation examination, application (A) must be accompanied by an examination fee of one dollar. No applicant will be admitted to an examination without a receipt for this examination fee signed by the Director of Admissions. Application (A) may be sent to the University at any time during the year prior to the date of admission, but ***at the latest must be filed one month before the time set for the examinations. Candidates making application after June 1st will experience great difficulty in taking the entrance examination and in receiving consideration of their applications.***

These Applications for Entrance should be filled out as completely as possible. When there is doubt as to a candidate's admission, considerable weight may be given to his record of specific experience and unusual qualifications. No results of entrance examinations will be reported, or application for admission be approved, until Application (A), (B) and (C), as well as the photograph of the candidate, have been filed in the office of the Director of Admissions.

Physical Examination. Sound physical health is essential for efficient University work. It will aid the University and in the end be to the interest of the applicant if the medical examiner, when filling out the medical certificate, will refuse to pass a student who is not robust enough to pursue a university course of study. For purposes of record, in addition to the Medical Certificate, the University requires each new student to take a medical examination at the University before he registers. New students, therefore, should arrive at the University a few days before the day set for registration.

Intelligence Test. An intelligence test is given all candidates for entrance, whether entering by examination or by certificate. This is not an examination in the subject-matter of the middle school course; it is to test common sense and general fitness for university work, and no preparation is necessary. For the year 1925 it will be used for record and future reference rather than for the determination of the candidate's entrance to the University, and will be given on the day before registration and at the University only.

Entrance by Certificate. Middle schools which maintain certain high standards will be accredited. A student who has graduated from one of these schools with a high record of achievement, and who presents a certificate from the principal or headmaster stating that he is well qualified in character and ability to undertake university studies, will be received without examination. In all cases the usual Application for Entrance must be presented.

Admission of Women. Women are admitted to the Pre-Medical, Pre-Theological, and Education Courses of the School of Arts and Science, and to the School of Medicine and the School of Theology. This entrance is subject to the same regulations and conditions as for the men students.

Entrance with Advanced Standing. Students who have satisfactorily completed at least one year of work at a recognized institution

of college or university grade may be admitted to such advanced standing as their previous records may warrant. In filing applications for admission with advanced standing, students should furnish a complete record of their preparation in the middle school, and of their college work. Before being admitted, such students must file certificates of honorable dismissal, or their equivalent, from the college whence they are transferring, and also a medical certificate.

Credit for Summer School Work. Properly qualified students taking subjects of university grade in the University Summer School may register for University credit for work done in that school. Summer School opens in 1925 on July 1st. For further information see the bulletin of the Summer School.

Post-Graduate Students. Graduates of recognized institutions of college or university grade will be received for post-graduate work in the School of Arts and Science and the Theological School on presentation of proper credentials.

Graduates of medical schools are also received for registration in the Medical School as special students. They are allowed to attend classes, clinics, operations, etc., on the same conditions as undergraduate students, but it is not possible to arrange special exercises for their instruction. Inquiry may be made of the Dean in regard to terms.

Special Students. Students who do not expect to finish their university course, or who are not working for a diploma or degree, may be received as "Special Students". Each case will be considered on its merits, and such students admitted only by specific action, except that applicants who have graduated from middle school and have taught three years may, without specific action, be admitted as special students in education. The general regulations governing entrance to the University must be complied with. Special students in the Arts College are required to pay a special fee of five dollars.

Registration. Before attending any University exercise each student must present himself at the office of the Registrar and there file a registration blank giving such information as may be required for the University records. New students will then select their major subject and receive a course card, after which the required fees should be paid to the Treasurer. The student's statement of courses can be prepared only by consultation with the Student Advisor for the major course in which the student is registered, and this statement must be signed

by the Dean. Students registering late are charged an additional fee of one dollar a day up to a maximum of three dollars. Late registration after three days is only on approval of the Dean. No student may be received later than two weeks after the beginning of the term except by special action of the Committee on Admissions. Each person whose registration has been completed will be considered a student of the University and subject to the regulations of the University during the period for which such registration is held valid.

2. ADMISSION TO SUB-FRESHMAN YEAR.

Entrance to the Sub-Freshman Year is by examination only. Candidates for entrance to this year must present Applications for Entrance (A), (B), and (C), and comply with the other general regulations governing entrance to the University. Candidates must present satisfactory evidence of the completion of five years of middle school work, and must take an examination similar in subjects and regulations to the General Matriculation Examination. This examination will be based on the work of a five-year middle school course. It will be given at the same time as the General Matriculation Examination. Students in the Sub-Freshman Class who wish to enter the University Freshman Class are required to take the General Matriculation Examination, with this exception:—students who receive a rank in their class among the highest thirty percent may be admitted to the Freshman Class without examination. The Sub-Freshman Year will be discontinued after the school year 1925-26, and its work taken over by the University Middle School.

3. ADMISSION TO THE COLLEGE OF ARTS AND SCIENCE.

(INCLUDING PRE-MEDICAL AND PRE-THEOLOGICAL COURSES).

Entrance Examinations. The examination admitting to the Freshman Year of the School of Arts and Science is known as the General Matriculation Examination. This examination is held each year, commencing the first Monday of July. The date for 1925 is July 6th, 7th, 8th. ***Registration for the examination and requests for the examination questions must be sent to the Director of Admissions not later than June 6th.*** Each registration for the examination must be accompanied by an examination fee of one dollar. No

candidate will be admitted to an examination without holding a receipt for this examination fee signed by the Director of Admissions.

This examination is held regularly at Tsinan in the University buildings, but may also be held at any of the following or other places from which there is a sufficient number of applications:

Tsinan	Shanghai	Hwaiyuan	Sianfu
Weihsien	Tsingchow	Weihweifu	Chefoo
Peking	Hankow	Taiyuanfu	Suchowfu, Ku.

By special arrangement the University of Hongkong Matriculation is accepted in lieu of the General Matriculation Examination of this University.

Regulations for the Conduct of the Examination. Uniform examination paper furnished by the University must be used. The papers will be numbered and no other marks indicating the identity of either the examinee or of his school may appear on the paper.

In examinations in Mathematics or in subjects requiring mathematical demonstrations, and in Essay papers, all the work done must appear on the papers which are submitted to the examiner, and processes as well as results will be considered in fixing the grades.

The language to be used in the examinations is understood to be Chinese, except in the examination in English; but in the General Matriculation Examination students whose preparation either wholly or in part has been in the English language may, at their option, take the examination in such subjects in either English or Chinese.

Examination Subjects. Candidates sitting for the General Matriculation Examination are examined in five subjects. Three of these subjects are compulsory and two are elective. The subject-matter on which these examinations are based is described in the syllabus of University entrance subjects (see page 8).

(a) Compulsory Examination Subjects.

1. *Chinese Language and Literature.*
   An essay, either in Mandarin or Wenli, of not less than 300 characters, is required.
2. *English Language.*
   This examination may be waived in the case of Pre-Theological students who are not seeking a degree, but in this case another subject must be chosen from the elective groups so as to make a total of five examination subjects.

3. *General Mathematics.*
   Since some candidates in 1925 may not have been prepared in the more practical problems of arithmetic, algebra, and geometry of which this course consists, the examination this year will contain a number of elective questions based on the older type of examination.

These compulsory examinations are in the "tool subjects", the subjects in which a student must be well grounded in order to be able to do University work.

(b) Elective Examination Subjects.

The candidate will choose two subjects from the following list, but not more than one subject from any group. This choice must be made before the candidate enters the examination and should be made a sufficient time in advance to permit of adequate preparation. Pre-Medical candidates are required to choose one of their two elective subjects from the Natural Science Group.

Group A. Natural Science
1. Physics
2. Chemistry
3. Biology

Group B. Political Science
1. Chinese History
2. Western History
3. Civics

Group C. Mathematics
1. Algebra
2. Plane and Solid Geometry
3. Trigonometry

Group D. Geography

Group E. Religious Education

A candidate taking an examination in natural science must present his laboratory note-books certified by his teacher and by the middle school principal or headmaster. These will be credited as part of the examination. The examination as well as the notebooks must give evidence that the student has had individual work in the laboratory and that he is familiar with the fundamentals of laboratory technique and physical measurement.

Pass-Grade and Conditions. The pass-grade is 60%. Students failing in one subject may be allowed to enter the University, provided that their grade in that subject is not less than 40% and that their general average for all subjects (including that in which they failed) reaches the minimum of 60%. This failure in an entrance examination subject constitutes a condition. When such a condition is allowed it must be removed by examination not later than one year from the date of entrance. To be admitted with a condition, a candidate's total record (school record and examination record) must be such as to show clearly that he is a desirable student.

Middle School Subjects Offered for Entrance. A unit of study in a middle school is defined as one 45-minute period of prepared classroom work per week throughout one semester in the junior middle school, or one 50-minute period of prepared classroom work per week throughout one semester of the senior middle school. Two periods of shop or laboratory work and the like shall be considered equivalent to one period of classroom work. The length of a semester should be from eighteen to twenty weeks.

The work of a six-year middle school should approximate 300 units. The University is prepared to recognize for entrance credit any subject having an established place in the middle school curriculum, in which adequate instruction is given, and which produces satisfactory results.

SYLLABUS OF MIDDLE SCHOOL SUBJECTS

The following brief statement will indicate in general the attitude of the University in judging the preparation deemed necessary in entrance subjects. No attempt is made to describe in detail all or any of the subjects which may be included in the middle school curriculum or offered for entrance. The chief purpose of this syllabus is to indicate in general what preparation is necessary for the entrance examinations.

No syllabus is included here for the middle school courses in Civics and Geography. This is because the text books and methods of instruction at present in use are neither sufficiently uniform in material nor adequate in treatment. Requests for examinations in these subjects must be accompanied by a full statement of the texts used and the ground covered. Only when the text and the ground covered seem to be adequate will the request for an examination be granted. The examination will in general be based on the course which has been studied by the student sitting for the examination.

Chinese History. (18 to 25 units).

The preparation in Chinese History should include the following topics: The learning and industry of the Former Han Dynasty; the learning, religion, and industry of the Later Han Dynasty; the learning and religion of the Eastern Tsin Dynasty; the learning, religion and industry of the Northern and Southern Ch'ao Dynasties; the learning, religion, and industry of the T'ang Dynasty; the learning and religion of the Northern and Southern Sung Dynasties; and also learning, religion, and industry under the Yuan, Ming, and Ch'ing Dynasties and under the Republic.

Chinese Language and Literature. (60 units).

There is so little uniformity among middle school courses in Chinese Language and Literature that it is impracticable to enforce detailed entrance requirements. The entrance examination is intended to test the student's ability to use the language in expressing ideas clearly and properly, and to test his general knowledge of the content of Chinese Literature. Schools should emphasize the methods of teaching, require the reading of newspapers and magazines, and spend considerable time on Modern Chinese. We would further recommend that in addition to the usual weekly essay there be some practice in practical composition once a week.

English. (60 units).

The primary aim of instruction in English in middle schools is clearness. Based upon grammatical correctness, which is the peculiar goal of elementary English conversation and composition, this is the quality by which the University matriculation examinations are rated, both for General Arts and for Pre-Medical candidates.

I. Work in English Conversation should be given at least two recitations a week throughout the six years of middle school. The student's efforts should be mainly devoted to the acquisition and the correct use of a limited vocabulary of every-day spoken English. The vocabulary found in the first four books of the Mastery of English Series is perhaps best suited and most convenient for such a foundation. For freshman classification, the University uses the more complete "Fundamental Vocabulary" of the University of Iowa. Entrants are expected to be familiar with the first three thousand words of this list. (Sample sets are on sale at the Bookroom of the University).

II. English Composition requires at least one or two recitations a week throughout the middle school course. The greater part of the student's time should be given to informal composition of sentences, paragraphs, and short themes. In the senior middle school however, some attention should be paid to the application of the fundamental principles of formal grammar. Among other texts the following are suggested as especially useful; Graybill's "Writing English", Wooley's "Written English", Fong Sec's "Intermediate Composition", and Tseu's "Specimens of Short Essays".

III. English Literature must be left for the most part to the collegiate course, but an introduction to a few foreign literary models may be given through senior middle school courses, using the collections of short stories or the series of English and American classics adapted to Chinese schools. Rapid sight reading, silent reading, and round-table discussions of these books in the last year of middle school should provide a basis for more advanced study in the University.

IV. Standards for English in the University correspond to those of the "Diagnostic English Mastery Chart" (published by Edward Evans and Sons, Ltd.). For 1925 the matriculation standards for the freshman class are fixed at 60 year-periods of English and a 'T' score of 56 or over. Any student with a 'T' score averaging less than 50 in such tests as the vocabulary, grammar-idiom, auditory comprehension, and silent reading tests, cannot do satisfactory work in the freshman class.

Mathematics.

(*a*) *General Mathematics.* (10 to 15 units).

General mathematics should consist, in correlated form and with the use of practical and experimental methods, of the fundamental principles of arithmetic, algebra, geometry, and numerical trigonometry. The following topics should be studied:

Linear equations in one unknown;
Ratio and proportion;
Quadratic equations in one unknown;
Numerical trigonometry, use of sine, cosine, and tangent in the solution of simple problems involving right triangles;
Rational use of significant figures;
Graphic representation of statistical data;
The linear function, $y = mx + b$;
Graphic solution of problems;
Empirical curves, fitting curves to observations;
Simple formulas, meaning and use;
Negative numbers, meaning and use;
Simultaneous linear equations in two unknowns;
Graphs as methods of representing dependence;
Computation with approximate data;
Variation;
The quadratic function $y = ax^2 + bx + b$;
Use of tables in computation other than logarithms;

It is recommended that the middle schools give careful attention to the thorough mastery of these tool subjects and of the mathematical technique which they involve, giving ample opportunity for the ready application of the principles to practical situations and problems.

The scope and character of the course are shown in the following text books: "The New System Series of Correlated Mathematics for Junior Middle Schools", and "Breslich's Mathematics", Books I and II.

(*b*) *Advanced Middle School Mathematics.* (10 to 15 units).

Entrance examinations in advanced mathematics are based on (a) a course in Combined Mathematics or courses in Algebra and Plane Geometry; (b) Solid Geometry; and (c) Plane Trigonometry.

(*1*) *Algebra.* (8 to 10 units).

The course in Algebra should cover the following topics; Algebraic addition, subtraction, multiplication, and division; Special methods in algebra; Factors; Highest common factor; Lowest common multiple; Fractional equations; Simple equations; Simultaneous simple equations; Simple equations graphs; Inequalities; Involution and evolution; Theory of indices; Radicals; Radical equations; Surds; Quadratic equations; Simultaneous quadratic equations; Roots; Quadratic equations graphs.

(*2*) *Plane Geometry.* (3 to 5 units).

The course in plane geometry should cover the following: The straight line; The circle; Proportion; Similar polygons; Area of polygons; Rational polygons.

(*3*) *Combined Mathematics.* (10 to 15 units).

With the foundation of the course in General Mathematics in the junior middle school, the work in the senior middle school should consist of a year, or a year and a half;—half a year being given to Demonstrative Geometry, half a year to Algebra, and half a year to a review of General Mathematics with the addition of a study of the use of the slide rule, and the use of Logarithms in computation.

(*4*) *Solid Geometry.* (3 to 5 units).

The work in Solid Geometry should include the following: Space—lines and planes; The Polyhedron; Cylinder; Cone; Pyramid; and Sphere.

(*5*) *Plane Trigonometry.* (5 to 8 units).

The work in Plane Trigonometry should include the following: Functions of acute angles; Right-angled triangles; Methods of measuring triangles; Oblique triangles; Problems of measurement; Tables and construction.

Religious Education. (20 units).

The courses in Religious Education studied in the junior and senior middle schools and offered for university credit should cover in general the following topics. The entrance examination will be based on these topics, but a choice of questions will be allowed since a complete covering of all topics is not expected.

1. *Old Testament Biography.*

   Study the main points in the lives of Abraham, Moses, Samuel, David, Solomon, Elijah, Amos, Isaiah, Jeremiah, Nehemiah, Ezra.

2. *New Testament Biography.*

   The life of Jesus Christ; and the lives of Paul, Peter, John, and Mark.

3. *The lives of great men and women of Christendom, as:*

   St. Augustine, Martin Luther, St. Francis, Wycliffe, John Knox, George Fox, Elizabeth Fry, Florence Nightingale.

4. *Old Testament History.*

   a. Old Testament geography.
   b. Early Hebrew life and history before the settlement of Canaan.
   c. Social conditions before the establishment of the kingdom.
   d. The rise of the kingdom and the causes and results of its division.
   e. The period of the two kingdoms; emphasizing the influences of Syria, Egypt, Assyria, and Babylonia.
   f. The history of Judah after the fall of Samaria.
      The work of Isaiah, the reform of Josiah, and the work of Jeremiah.
   g. The dispersion and the religious significance of the exile.
   h. The return to Jerusalem.—The work of Nehemiah and Ezra.
   i. The sources of the Old Testament and the history of its literature.

5. *Studies in the life of Christ, emphasizing his character, work, and teachings.*

6. *Studies in Acts and the Pauline letters.*

The following texts, or similar ones, cover the ground of the topics given above.

Luce, Life and Teachings of Christ	Mission Book Co.
" The Acts and Epistles	" "
" A Harmony of the Gospels	" "
Wright and Chen, Old Testament History	Kuang Hsueh Pub. Co.
Chen and Rawlinson, Historical Life of Christ	Mission Book Co.
Rauschenbusch, Social Teachings of Jesus	Kuang Hsueh Pub. Co.

Also consult

Mandarin Bible Dictionary	Religious Tract Society.
Hastings Bible Dictionary	Kuang Hsueh Pub. Co.
Hayes, Church History 2 vol.	" " " "
Christian Biographies	" " " "
Allen, Life of Martin Luther	" " " "

Science. (Biology, Chemistry, Physics).

A candidate taking an examination in any of the above subjects must present his laboratory note-books, as a record of the experiments which have been performed by the student himself. Each experiment should be initialed by the instructor. The note-books as well as the examination must give evidence that the student has had individual work in the laboratory and that he is familiar with the fundamentals of laboratory technique.

The note-books must be certified by the principal or head-master of the middle school, and should be sent—preferably by the school directly, rather than by the student—to the Director of Admissions of the University.

It is to be understood that note-books which contain merely notes taken during the instruction periods, notes on demonstrations, or notes copied from text-books, cannot be considered as fulfilling this requirement.

Biology. (6 to 10 units).

The course should require three double-periods of laboratory work and two single-periods of recitation per week throughout the year.

The scope of the requirement in biology is indicated below:

I. How Plants and Animals Live.

Environment, adaptation and adjustment, orderly arrangement of kinds, life of Artemisia, life of Honey-bee.

II. Relation of Life to Food.

(1) In Plants:—Structure and work of roots, soils and soil conservation; structure and work of stems; forestry; structure and work of leaves.

(2) In Animals:—Food of animals; digestion; respiration and circulation.

III. Responses.

Examples of simple responses; chemical senses; sound and hearing; light and vision; tactile senses; nervous system of animals; instinct, habit, and intelligence; effects of poisons.

IV. Growth and Reproduction.

(1) Life histories of plants:—An alga; a moss; a fern; a flowering plant; pollination; seeds; fruits; seed distribution; propagation of plants.

(2) Life histories of animals:—A fish; a frog; a bird; a mammal.

(3) Varation and heredity.

V. Interrelation of Life Forms.

Parasites; symbionts; saprophytes; commensals; predators; slaves.

VI. Applications of Biological Principles.

Seed selection; animal breeding; causes of disease; prevention of disease; carriers of disease (fly, mosquito, etc.) plant disease and controls; weed problem; parasitic worms; insect enemies and their control; fish culture; birds in relation to man.

Special stress should be placed on the preparation of the laboratory reports. The student should be trained to present his facts in as concise and systematic form as possible. Tabulation, and simple, unshaded, outline drawings are the most satisfactory ways of recording the observations. Each section of the subject should be followed by a review and summarization which will insure that the students have grasped the principles underlying their observations.

Theories and material of philosophical interest alone should form no part of the course. The course should be in every way practical.

The following texts are recommended for the guidance of the teacher:—

Atwood— Civic and Economic Biology.
Gruenberg— Elementary Biology.

Hunter— Civic Biology.
Hodge and Dawson— Civic Biology.
Gruenberg and Wheat— Student's Manual of Exercises in Elementary Biology.
Bergen and Davis— Laboratory and Field Manual of Biology.
Hunter— Laboratory Problems in Civic Biology.
Gruenberg— Manual of Suggestions for Teachers.

Chemistry. (6 to 10 units).

At least half of the number of units of credit in chemistry should represent laboratory work. Ten units of credit will represent about two periods of recitation work and three double-periods of laboratory work per week for two semesters.

The topics covered in the middle school chemistry course should include the following:

Use of the balance;
Principles of the quantitative method;
The atmosphere and oxygen;
Nitrogen;
Carbon and its compounds;
Fuels;
Water and hydrogen;
Acids, bases;
Chlorine and the halogens;
Salt, soda, saltpeter;
Representative metals;
Chemistry of plant life;
Chemistry of animal life;
Foods and nutrition.

The method of teaching the chemistry course is far more important than the subject matter; and credit will be given according as it is evident that the student has received an intelligent grasp of the subject and its relation to the problems of his environment, rather than evidence of having studied a certain number of prescribed topics. All topics should be introduced through the medium of the laboratory, and the other class periods should be used essentially to supplement the laboratory work. A thoroughly inductive treatment is desirable. The emphasis in middle school chemistry should be constantly on applications. The course should be planned definitely to interpret in a scientific way the chemical phenomena of everyday life. Theories should not be stressed; but an understanding of the quantitative method, and training in accuracy and exact observations, are an essential part of the course.

It is preferable that the middle school course in physics should precede the course in chemistry.

The scope and general method of treatment of the course may be learned by consulting one of the following commonly used texts:—

Black and Conant— Practical Chemistry, with
Black— Laboratory Experiments in Chemistry.

McPherson and Henderson— Elementary Study of Chemistry, with
McPherson and Henderson— Exercises in Chemistry.

McPherson and Henderson— Chemistry and its Uses, with
McPherson and Henderson— Exercises in Practical Chemistry.

Coulthard— First Book of Chemistry.

Physics. (6 to 10 units).

The requirement in Physics is a course in elementary Physical Measurements, which will give the student a working knowledge of:

1. Concepts in Physics such as length, area, volume, mass, weight, density, specific gravity, time, force, pressure, velocity, acceleration, work, efficiency, heat, temperature; the nature of coefficients such as expansion, friction, etc.; with the units in which each are measured.

2. Simple laws of reflection and refraction of light, formation of images by mirrors and lenses, using the ideas of elementary geometric optics.

3. The nature of periodic motion, using as illustrations pendulums, vibrating springs, water waves and sound waves; and familiarity with the terms period, wave length, amplitude, frequency.

4. The magnetic effects of electric currents and Ohm's Law, with simple applications.

The course should be built up about laboratory experiments performed by the individual student. These should aim to be mostly quantitative in nature. The student should know how to observe and record data in an intelligent way, as well as to be able to present his results clearly and, whenever possible, graphically.

The note-book record should clearly show the object of the experiment, the apparatus used, description of method with drawings, data as observed, and results and conclusions.

It is suggested that Stifler's "Exercises in Elementary Physics" be considered as indicating the minimum requirement.

Other texts suggested for reference are:—
Watson— Elementary Practical Physics.
Millikan, Gale, and Bishop— Laboratory Physics.
Shih Yien Chiao Cheng (Translation from Millikan and Gale's Laboratory Physics).
Carhart and Chute— Laboratory Physics.

Western History.

A. Pre-Historic Times.

I. Earliest Man.

1. Origin of animal and human life.
2. Dawn of civilization.
3. Stone Age; Bronze Age; Iron Age.

B. Historic Times.

I. The Ancient Period.

1. A brief study of the histories of Egypt, Phoenicia, Judea, Babylon, Assyria and Persia; emphasizing the outstanding features of their several cultures.
2. The History of Greece, Macedonia and the Roman Empire, placing special emphasis upon the factors contributing to the development of the Middle Ages.

II. The Mediaeval Period.

1. The Teutonic invasions; the decline of the Roman state and culture; the beginnings of new European states.
2. Mohammedanism; conflict between Christianity and Mohammedanism.
3. Feudalism; origin, decline, value.
4. Development and spread of Christianity; the crusades; the origin, growth and power of the Papacy; conflict between Church and State; the Reformation and Counter-Reformation; religious wars.
5. The Renaissance; the age of discoveries (America).
6. Political development in the leading countries of Europe.

III. The Modern Period.

a) To 1914.

1. England; revolutions; colonial and commercial policy; growth of modern democracy.
2. France; Louis XIV; French Revolution; rise and fall of Napoleon; revolutions of 1830 and 1848; recent development.
3. Spain; loss of the Netherlands; decline.
4. Russia; Peter the Great; wars with Turkey; Congress of Berlin.
5. Rise of Prussia; Frederick the Great; Partition of Poland; war with Austria.
6. Unification of Germany and Italy; Bismark and Cavour.
7. The United States; war of Independence; slavery and Civil War; later political development.
8. South America; a brief general survey.

b) Since 1914.

1. The Great War; causes and effects.
2. Versailles Treaty; territorial changes.
3. International organizations; League of Nations, the International Labor Organization and the International Court of Justice.
4. The Washington Conference; attempt at limitation of armaments.

The following text-books are recommended:

1. For Pre-Historic Times:
   新學制高級中學西洋史(商務印書館).
2. For the Ancient, Mediaeval, and Modern Periods:
   新學制高級中學西洋史(商務印書館); 共和國教科書西洋史(商務印書館); 中華書局之西洋史; 新著世界史(商務印書館).
3. For the Latest Period:
   新著西洋近百年史(商務印書館); 新著世界史(商務印書館).

NOTE:—For the benefit of the schools that wish to do the work in English we would recommend the use of "A First Book of World History" by F. J. C. Hearnshaw (Macmillan and Co. London. 1924. Pages IX: 194). Although the title suggests that this is a General History, it really is a first book of Western History.

4. ADMISSION TO SCHOOL OF THEOLOGY.

Candidates are required to present an Application for Entrance, made on the blank forms furnished by the University, which will be supplied by the Director of Admissions or the Dean of the School of Theology. This application form must be made out in full, including formal application for admission, a certified statement of the scholastic work done, a medical certificate, and a recommendation from the Church or Mission to which the candidate belongs. The Application must be returned to the University at least one month before the time set for the examinations. Women are admitted to the School of Theology on the same conditions as men students.

Conditions of Admission:

1. Graduates of the School of Arts and Science, or of other recognized institutions of the same grade, are admitted without examination.
2. Other applicants for admission to the School of Theology must have completed a six-year middle school course or the Sub-Freshman year in a recognized institution of college grade, and at least the Freshman Year of the School of Arts and Science, or must pass an examination in the subjects specified in the above courses.
3. Applicants who are unable to meet the conditions outlined above, but who have special experience in Christian service, or exceptional qualifications, may be received, after examination by the Faculty as to their fitness to take the course, as special students, and on graduation will receive a certificate as evidence of work done.
4. The School welcomes graduates of theological schools, whether pastors or preachers, who may desire to enter for a short period of study after some years of active work.

5. ADMISSION TO SCHOOL OF MEDICINE.

For admission to the Medical School the following qualifications are required:—

(a) The candidate must have graduated from a six-year middle school or have done equivalent work. For standards as to work which should be covered in the middle school, see the "Syllabus of Middle School Subjects", pages 8—15.

(b) Following graduation from middle school, the candidate must have done two years work in a recognised institution of college grade, including a minimum amount of work in the various subjects as shown by the schedule of Entrance Requirements included below. These courses may be taken in the Pre-Medical Department of Shantung Christian University, for admission to which see pages 5 to 15. The Pre-Medical course of study may also be taken in other institutions of suitable grade, provided the requisite amount of laboratory work is devoted to each subject. In all cases, however, graduates of Pre-Medical courses, *either of this or other universities,* will be required to present themselves for the entrance examination of the School of Medicine at the conclusion of the Pre-Medical work.

To be admitted to the examination a candidate must (1) bring evidence that he has graduated from an approved Middle School or has done equivalent work; (2) bring evidence from the college where the pre-medical work was done as to good character, and that the subjects specified below have been covered; this should include the courses studied, the time occupied in each subject and the grades secured; (3) submit laboratory note-books, signed by the instructor, for the Biology, Chemistry and Physics courses.

Entrance Requirements.

Biology: One paper.

Prerequisite: At least one year of college grade work in General Biology and a year's work in General Zoology. This should include not less than four *credit hours of recitation and lecture and of six actual hours of laboratory and field work a week, for the two years.

The work as conducted at Shantung Christian University is based on:

First Year: Shull, Principles of Animal Biology, McGraw Hill Book Co.
Woodruff, Foundation of Biology, Macmillan Co.

Second Year: Thomson's Outlines of Zoology, Hodder and Stoughton.
Reese, Introduction to Vertebrate Embryology, Frog only. G. P. Putnam. Translation: Presb. Mission Press.
Pratt, Vertebrate Zoology, [Sections on the dogfish, frog, turtle, bird and mammal, especially the latter]. Ginn and Co.

Physics: One paper.

Prerequisite: A course of general physics of college grade extending over a period of at least two hundred and fifty hours. Of this a minimum of one hundred and twenty-five hours must be spent in the laboratory, doing individual work and receiving individual instruction.

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*A 'credit hour' is one hour a week in recitation or lecture, or two hours a week in laboratory, over a term of eighteen weeks.

4. ADMISSION TO SCHOOL OF THEOLOGY.

Candidates are required to present an Application for Entrance, made on the blank forms furnished by the University, which will be supplied by the Director of Admissions or the Dean of the School of Theology. This application form must be made out in full, including formal application for admission, a certified statement of the scholastic work done, a medical certificate, and a recommendation from the Church or Mission to which the candidate belongs. The Application must be returned to the University at least one month before the time set for the examinations. Women are admitted to the School of Theology on the same conditions as men students.

Conditions of Admission:

1. Graduates of the School of Arts and Science, or of other recognized institutions of the same grade, are admitted without examination.
2. Other applicants for admission to the School of Theology must have completed a six-year middle school course or the Sub-Freshman year in a recognized institution of college grade, and at least the Freshman Year of the School of Arts and Science, or must pass an examination in the subjects specified in the above courses.
3. Applicants who are unable to meet the conditions outlined above, but who have special experience in Christian service, or exceptional qualifications, may be received, after examination by the Faculty as to their fitness to take the course, as special students, and on graduation will receive a certificate as evidence of work done.
4. The School welcomes graduates of theological schools, whether pastors or preachers, who may desire to enter for a short period of study after some years of active work.

5. ADMISSION TO SCHOOL OF MEDICINE.

For admission to the Medical School the following qualifications are required:—

(a) The candidate must have graduated from a six-year middle school or have done equivalent work. For standards as to work which should be covered in the middle school, see the "Syllabus of Middle School Subjects", pages 8—15.

(b) Following graduation from middle school, the candidate must have done two years work in a recognised institution of college grade, including a minimum amount of work in the various subjects as shown by the schedule of Entrance Requirements included below. These courses may be taken in the Pre-Medical Department of Shantung Christian University, for admission to which see pages 5 to 15. The Pre-Medical course of study may also be taken in other institutions of suitable grade, provided the requisite amount of laboratory work is devoted to each subject. In all cases, however, graduates of Pre-Medical courses, *either of this or other universities,* will be required to present themselves for the entrance examination of the School of Medicine at the conclusion of the Pre-Medical work.

To be admitted to the examination a candidate must (1) bring evidence that he has graduated from an approved Middle School or has done equivalent work; (2) bring evidence from the college where the pre-medical work was done as to good character, and that the subjects specified below have been covered; this should include the courses studied, the time occupied in each subject and the grades secured; (3) submit laboratory note-books, signed by the instructor, for the Biology, Chemistry and Physics courses.

Entrance Requirements.

Biology: One paper.

Prerequisite: At least one year of college grade work in General Biology and a year's work in General Zoology. This should include not less than four *credit hours of recitation and lecture and of six actual hours of laboratory and field work a week, for the two years.

The work as conducted at Shantung Christian University is based on:

First Year: Shull, Principles of Animal Biology, McGraw Hill Book Co.
Woodruff, Foundation of Biology, Macmillan Co.

Second Year: Thomson's Outlines of Zoology, Hodder and Stoughton.
Reese, Introduction to Vertebrate Embryology, Frog only. G. P. Putnam.
Translation: Presb. Mission Press.
Pratt, Vertebrate Zoology, [Sections on the dogfish, frog, turtle, bird and mammal, especially the latter]. Ginn and Co.

Physics: One paper.

Prerequisite: A course of general physics of college grade extending over a period of at least two hundred and fifty hours. Of this a minimum of one hundred and twenty-five hours must be spent in the laboratory, doing individual work and receiving individual instruction.

*A 'credit hour' is one hour a week in recitation or lecture, or two hours a week in laboratory, over a term of eighteen weeks.

In general, it is suggested that the work covered in the laboratory should follow Millikan's "Mechanics, Molecular Physics and Heat" and Millikan and Mill's "Electricity, Light and Sound".

For general reading and lectures, Kimball's "College Physics" and Millikan and Gale's "First Course in Physics" is suggested.

Chemistry: One paper.

Prerequisite: Four terms of laboratory work, covering General Chemistry, Qualitative and Quantitative Analysis, Organic Chemistry. The aim of the work in Chemistry should be to train the student to think in terms of modern chemical concepts and to familiarize him with methods of laboratory study.

The total requirement in Chemistry is reckoned as a minimum of 450 hours work. It is suggested the Pre-medical Chemistry pursue the method and cover the ground represented in the following texts:—

McPherson and Henderson: General Chemistry.
McPherson and Henderson: Laboratory Manual.
Noyes: Qualitative Chemical Analysis (metals only).
Chapin: Second Year College Chemistry.
Chapin: Exercises in Second Year Chemistry.
Talbot: Quantitative Chemical Analysis (selections from this text).
Cohen: Theoretical Organic Chemistry.
Fisher: Laboratory Manual of Organic Chemistry (shorter course).

Psychology: One paper.

Prerequisite: Lectures, one course equivalent to four semester hours.
Examination Syllabus: Based on Buell's "Essentials of Psychology" or its equivalent.

Chinese. Students are expected to have studied Mei Dzi 墨子 and Chinese Composition (Mandarin).

One examination will be held in Wen Li Composition which paper will be set to test their fluency and neatness in the literary style. Compositions must contain at least three hundred and fifty characters and the subject will be selected from the work studies as stated above.

English Requirements. A student should have school credits for six full years of English study. The examination is a test of his ability to use English correctly rather than a test of his knowledge of the rules of grammar, composition, etc.

A Physical Examination is required of all applicants for admission, and admission may be refused on the basis of ill health. Provision is made for the medical care of students during their residence in the school.

Advanced Standing. At the discretion of the Faculty, students from other medical schools of recognized standing will be received into the upper classes of the Medical School upon the following conditions:—

1. That they present evidence of having fulfilled the entrance requirements, and of having spent as many years in medical study as they desire credit for.

2. That they pass examinations in the subjects for which they desire advanced standing.

UNIVERSITY FEES AND DEPOSITS.

The revised schedule of University Fees and Deposits, due at the beginning of each semester, in local currency, is as follows:—

TUITION:

Arts and Science—Arts and Science Courses	$25	per semester
Pre-Theological Course	10	" "
Pre-Medical Course	30	" "
Theology	10	" "
Medicine	30	" "
ATHLETIC:—All Schools	$2	" "
DORMITORY:—All Schools	$5	" "

BREAKAGE DEPOSITS—GENERAL AND LABORATORY:

Arts and Science—Arts and Science Courses	$3	annually, payable in fall
Pre-Theological Course	3	" "
Pre-Medical Course	8	" "
*Chemistry and Physics Laboratory	3	" "
†Light Deposit	4	" "
Theology	1	" "
Medicine	5	" "
KEY DEPOSIT:—Arts and Theological Schools	$1	returnable on return of key

DEPOSITS FOR BOARD:

Arts and Theology (to Treasurer)	$22	per semester
Medicine (to Students' Committee) (approx.)	30	" "

No refunds of fees are to be made after the first fortnight of each semester, except by special approval of the Dean.

A ruling of the University provides that fees may be raised at any time at the discretion of the Field Board of Managers.

Student Trips. Occasional trips for students to points of interest and instruction have been arranged. These have been conducted personally by members of the faculty. The cost of the same have been paid in part or entirely by the students themselves. At all times such trips are entirely optional, and students are at liberty to refrain from participating in them if they feel they cannot afford them.

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*Additional deposit to be paid only by students in the Arts and Science Course majoring in Chemistry and Physics.

†Deposit to be made by all Arts and Science students, to be checked pro rata for any excess of light used above the allowance provided in the University budget. (In effect from Sept. 1, 1925).

STUDENT EXPENSES.

The tables below furnish estimates of the annual expenses of a student in the different Schools of the University. Travel and vacation expenses are not included. Some students by bringing clothing from home make this item lower than what is given below. Men and women students in the same School and Course have approximately the same expenses.

School of Arts and Science.

ARTS, SCIENCE, AND EDUCATION COURSES.

	Low	Average	High
Tuition	$50	$50	$50
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Light Deposit	4	4	4
Breakage Deposit	3	3	3
Laboratory Fee	3	3	3
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	15	25	50
Clothing	24	35	70
Contributions	3	5	8
Miscellaneous	10	25	40
TOTAL	$171	$209	$287

PRE-THEOLOGICAL COURSE.

Student expenses in this Course will approximate the lowest column given above, with the exception of tuition which is $20. Thus the total yearly expense will vary from $141 up.

PRE-MEDICAL COURSE.

	Low	Average	High
Tuition	$60	$60	$60
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Deposit & Laboratory Fee	8	8	8
Light Deposit	4	4	4
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	20	35	60
Clothing	24	35	70
Contributions	3	5	8
Miscellaneous	10	30	45
TOTAL	$188	$236	$314

School of Theology.

	Low	Average	High
Tuition	$20	$20	$20
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Deposit	1	1	1
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	8	12	25
Clothing	24	30	40
Contributions	3	5	8
Miscellaneous	4	20	40
TOTAL	$119	$148	$193

School of Medicine.

	Low	Average	High
Tuition	$60	$60	$60
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Fee	5	5	5
Laboratory Expense	12	15	20
Board	60	60	60
Books and Stationery	40	50	75
Clothing	30	50	70
Contributions	7	11	15
Miscellaneous	13	30	50
TOTAL	$241	$295	$369

Self-Support of Students.

A few students find it possible to earn part of their expenses while attending the University. These are usually junior or senior students who can secure position as tutors and part time teachers in the city, or as assistants in various departments and laboratories in the University. No student should come to the University expecting to earn part of his way without first making sure that he can find a position. Students earning part of their expenses should not plan to undertake the full number of units of study during the semesters in which they are doing this outside work, and should expect to spend more than the usual number of years in residence.

BULLETINS OF INFORMATION.

The following Bulletins are published by the University, and may be obtained by application to the Registrar of Shantung Christian University:—

Bulletin No. 37.	School of Medicine (English).
(No number)	School of Medicine (Chinese).
Bulletin No. 39.	School of Theology (English).
Bulletin No. 43.	Entrance Regulations (Chinese).
Bulletin No. 46.	School of Arts and Science (English).
Bulletin No. 47.	Bulletin of General Information (English).
Bulletin No. 48.	School of Arts and Science (Chinese) (in preparation).

B. A. G.

SHANTUNG- School of Arts & Sciences 1925 Set 1925

SHANTUNG CHRISTIAN UNIVERSITY

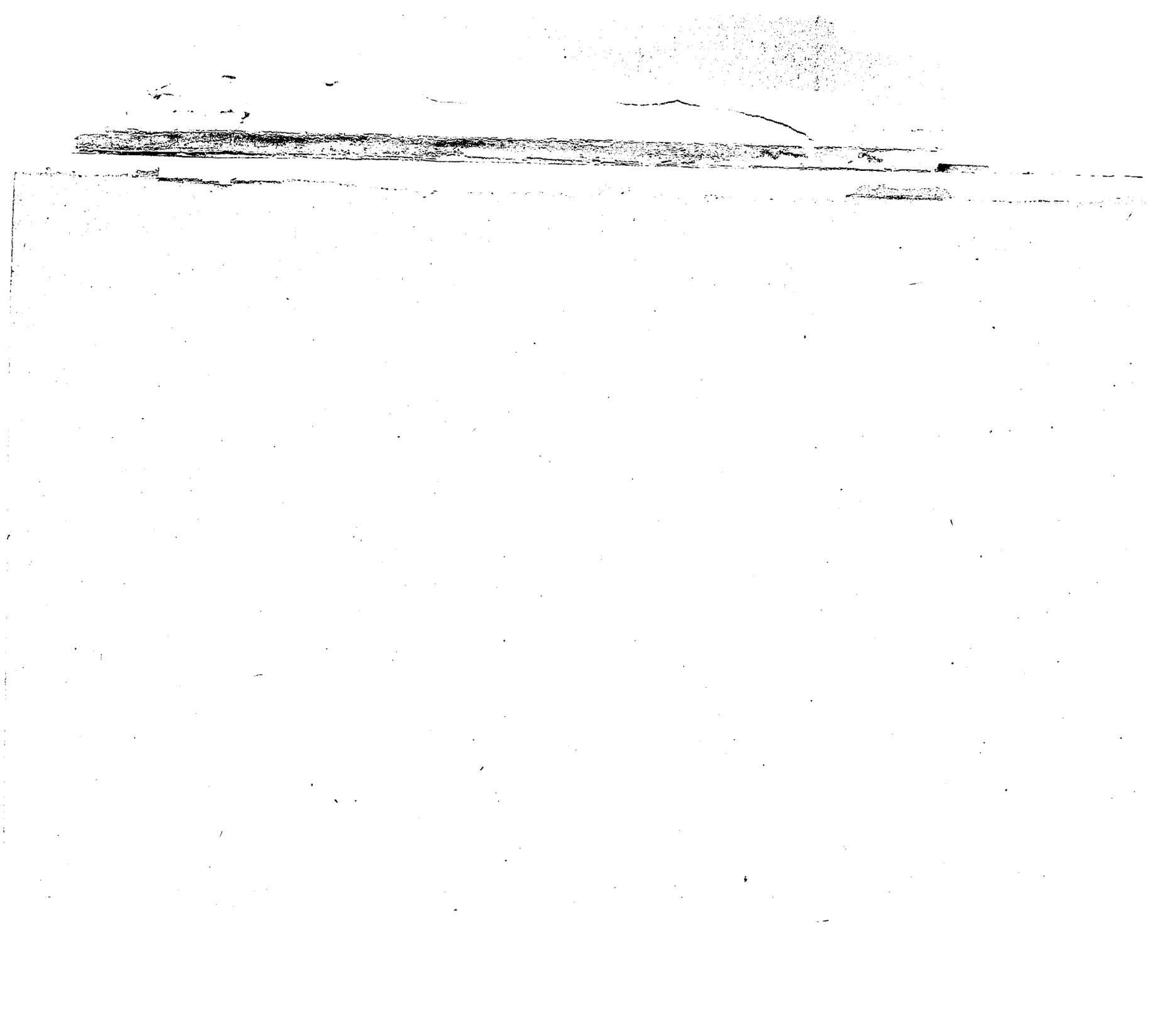
TSINAN, CHINA

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1925

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SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

School of Arts and Science

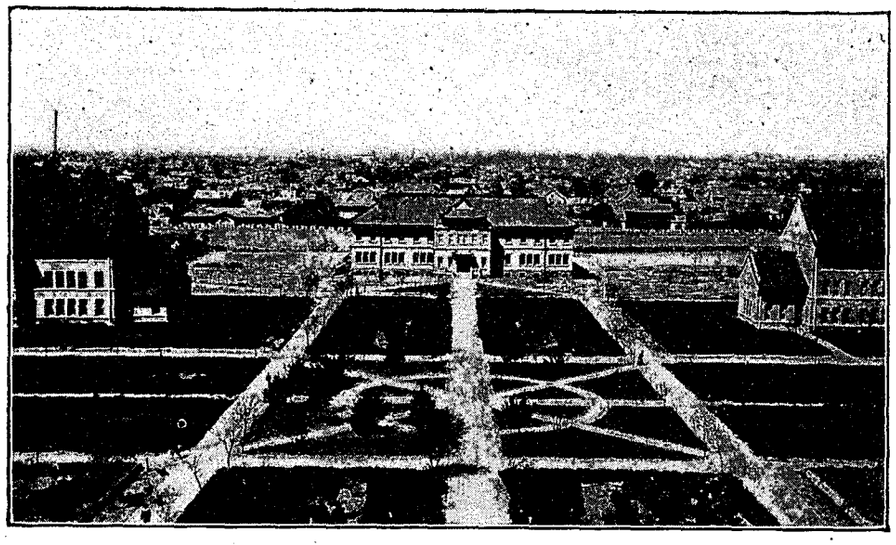
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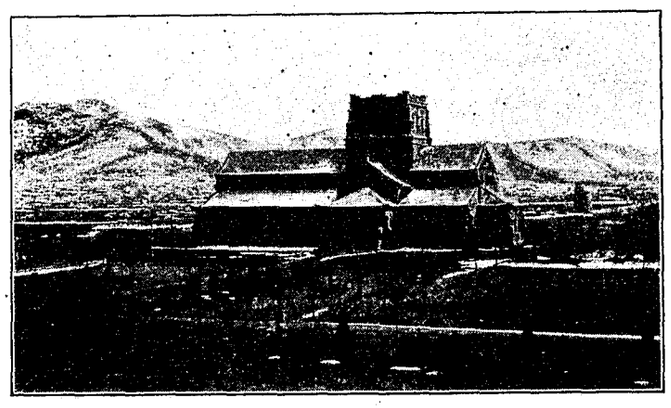
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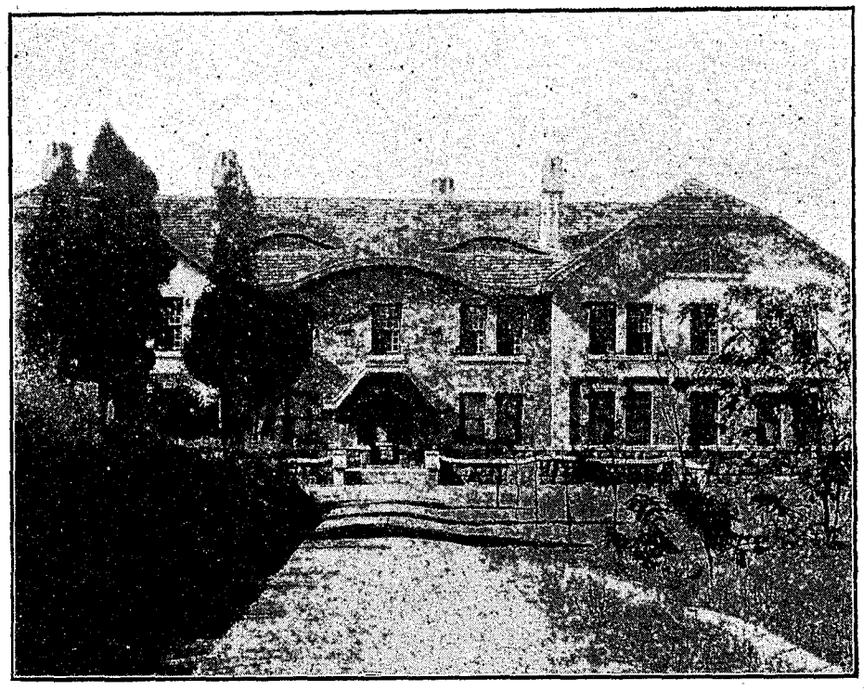
THE ALUMNI GATE



VIEW OF CAMPUS



THE KUMLER MEMORIAL CHAPEL



THE WOMEN'S DORMITORY

THE UNIVERSITY CALENDAR

1925, 1926.

1925

February 5th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 6th, Friday	Recitations begin.
April 4th, 5th, 6th, Saturday, Sunday, Monday	Tsing Ming Holidays.
April 10th	Good Friday.
April 24th, 25th	North China Field Meet.
May 9th, Saturday	National Humiliation Day.
June 6th, Saturday	Last day for receiving applications for Entrance Examinations.
June 11th, Thursday	Spring Semester closes, Commencement Exercises 10 a.m.
July 1st Wednesday	Summer School begins.
July 6th, 7th, 8th	Entrance Examinations.
July 29th, Wednesday	Summer School closes.
September 17th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.
September 21st, Monday	Confucius' Birthday.
October 9th, 10th	National Holidays. Inter-Middle-School Track and Field Meet.
December 24th, 25th, 26th	Christmas Holidays.

1926

January 1st, Friday	New Year's Holiday.
January 28th, Thursday	Fall Semester closes.
February 13th, Saturday	Chinese New Year.
February 18th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 19th, Friday	Recitations begin.
April 2nd	Good Friday.
April 4th, 5th, 6th, Sunday, Monday, Tuesday	Tsing Ming Holidays.
April 24th, Saturday	Field Day.
May 9th, Sunday	National Humiliation Day.
June 5th, Saturday	Last day for receiving applications for Entrance Examinations.
June 16th, Wednesday	Spring Semester closes, Commencement Exercises 10 a.m.
July 5th, 6th, 7th	Entrance Examinations.
September 16th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.

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WU GIN-DING DAVID, (S.C.U.), *Assistant Instructor in Sociology and Economics.*

GENERAL INFORMATION

HISTORICAL NOTE

Shantung Christian University, which was founded in 1904, represents one of the largest attempts at co-operative work in higher education on the part of Christian Missions in any part of the world. Thirteen Missionary Societies* from Great Britain, the United States, and Canada take a share in its maintenance, whilst it has also received generous assistance from the China Medical Board of the Rockefeller Foundation, the Shantung Provincial Assembly, and from other sources.

Although the University has occupied its present site for only the last eight years, its origin extends back to the educational work commenced in the east of the province as early as 1864 by the well-known American Presbyterian missionary, the Rev. Calvin W. Mateer, D.D., in which the Rev. Watson M. Hayes, D.D., also took a prominent part, and which led to the establishment of the Tengchow College. This College was removed to Weihsien in the year 1904, under the presidency of the Rev. Paul Bergen, D.D., and at the same time the English Baptist Mission, which had carried on successful educational work in Shantung for many years under the direction of the Rev. J. S. Whitewright, the Rev. Samuel Couling, and the Rev. J. Percy Bruce, entered into union with the American Presbyterian Mission. From that union the Shantung Christian University had its birth.

For several years the united missions carried on a School of Arts and Science in Weihsien, a School of Theology at Tsingchowfu, and a School of Medicine in Tsinan; but as the result of energetic efforts on the part of the Rev. H. W. Luce and others, funds were subsequently secured for the transfer of the Arts and Science, and Theological Schools to Tsinan, where the whole University was assembled in 1917.

*These are as follows:

Great Britain:	Baptist, Anglican (S.P.G.), London, Wesleyan, and English Presbyterian Mission.
United States:	Presbyterian North, Presbyterian South, American Board, Lutheran United Mission, Methodist Women's Foreign Missionary Society, Methodist Episcopal Mission, and Church of the Brethren Mission.
Canada:	Presbyterian Mission.

Large extensions were also made to the buildings and staff of the Medical School by means of a grant of G. $200,000 from the China Medical Board, who transferred to the School the three lower classes then studying in the Peking Union Medical College. At the same time (in 1916-17), acting on the recommendation of the Council on Medical Education of the China Medical Missionary Association, the Medical Department of the University of Nanking and the Hankow Union Medical College were amalgamated with the School of Medicine of the Shantung Christian University, and their students and certain members of their faculties transferred to Tsinan.

Another important addition to the University was made in the same year when the Tsinanfu Institute and Museum, founded in 1904 by the Rev. J. S. Whitewright of the English Baptist Mission, became incorporated in the University as its Extension Department.

In 1923 the sphere of the University was still further extended by the amalgamation of the School of Medicine with the North China Union Medical College for Women, Peking. Five members of the staff of that college, together with the student body; were transferred to Tsinan during the following months, and since that time all three schools of the University have been placed upon a co-educational basis.

CHARTER OF INCORPORATION.

The University is incorporated in the Dominion of Canada, a special Act having been passed by the Senate and House of Commons in 1924, and receiving royal assent on July 19th of that year. This Act has conferred upon the University the authority to grant such credentials and degrees, including honorary degrees, as are in accordance with the laws of China. A detailed syllabus will shortly be issued, giving requirements for such degrees as the University decides to offer.

PURPOSE AND SPHERE.

The main purpose of the University, as expressed in its By-laws, is "The advancement of the Kingdom of God through higher education of a distinctly Christian character, with a view to developing a capable and consecrated leadership for the Christian church and community in China."

With this object the University maintains the following departments:—

School of Arts and Science, the chief objective of which is the preparation of well-trained teachers. This school offers a four-year College course, including a choice of subjects from various selected groups. It also provides Pre-Medical and Pre-Theological instruction for students planning to enter the Schools of Medicine and Theology.

School of Theology, for the preparation of well-trained ministers, evangelists, and other religious workers. The ordinary course consists of four years, the first year of which is spent in the School of Arts and Science. A special post-graduate course of three years is being prepared for those who have already graduated in Arts.

School of Medicine, for the training of such students as have already completed a Pre-Medical course of at least two years, either in the special Pre-Medical Department of the School of Arts and Science or in some other institution of equal standard.

University Hospital, with attached Nurses' Training School for both men and women nurses.

Extension Department, for the cultivation of social and religious contact with the people of the city and district. This Department is carried on through the use of public lectures, evangelistic addresses, models, graphic charts, etc., and is visited by nearly half a milion people annually.

MEDIUM OF INSTRUCTION.

The Chinese (Mandarin) language is the main medium of instruction throughout all the schools of the University, students being encouraged to assimilate all branches of knowledge in their own tongue. At the same time, English is a required subject at the entrance examination and throughout the whole curriculum. The use of English text-books and reference books is encouraged, and such students as show an adequate knowledge of English are permitted to elect certain courses which are taught through that medium of instruction.

LOCATION AND BUILDINGS.

The University is situated on a large campus of nearly one hundred English acres, in the south suburb of Tsinan; the Medical School, Hospital and Extension Department being just within the suburb wall, in contact with a well-populated residential district, whilst the remainder of the University is on an adjoining site outside the wall, close to the southern hills.

The buildings and equipment, which represent gifts to a value of over $1,500,000 Mex., from friends in the United States, Great Britain and Canada, include the following:—

McCormick Administration Hall
Kumler Memorial Chapel
Calvin Mateer Science Hall
Bergen Hall
Gotch-Robinson School of Theology
Augustine Library
School of Medicine
University Hospital
Arthington Institute (Extension Department.)

The Science Halls and Medical School include a large number of laboratories, fitted with modern equipment, and with apparatus for the individual use of students; the University Hospital, which was erected in 1915, is also furnished throughout on modern lines.

The Extension Department (formerly known as the Tsinan Institute and Museum) contains a great many self-explanatory models and charts, illustrating religion, natural history, astronomy, ethnology, hygiene, etc.; and giving practical instruction in such measures as are being employed in all parts of the world for the physical improvement and the mental and spiritual enlightenment of humanity. Two lecture halls, one capable of accommodating 500 people, are in constant use.

The dormitories of the Arts and Science, and Theological Schools are situated on the east side of the main campus, and arranged in courts, each student having a separate room. The Medical dormitories are located inside the suburb wall, adjoining the School of Medicine, and are arranged for two students per room. The dining-rooms are connected with the dormitories and are under the entire control of students' committes.

A special dormitory for women students was erected in 1923 in the north-west corner of the campus, including rooms for some of the women teachers. This portion of the University grounds has been set apart for women students, and includes their own recreation grounds and staff residence.

Other residences for the teaching staff are situated both within and without the suburb wall; whilst beyond the eastern dormitories a group of Chinese houses, known as the Follansbee Village, has been developed, in accordance with Chinese ideas, for the accommodation of a portion of the Chinese staff.

THE AUGUSTINE LIBRARY.

The Augustine Library, which was built for the University by the generous gifts of the Augustine Presbyterian Church, Winnipeg, consists of a large reading-room, stack-room, and various associated offices, together with smaller rooms for newspapers and for department seminars. The Library possesses a total of about 19,000 volumes, of which 6,000 are in Chinese, and 13,000 in English, and regularly receives about fifty English periodicals and about twenty Chinese journals.

Within the past few years it has received generous gifts from the Carnegie Institute of Washington and from other sources, whilst the beginning of a special collection of books on China has been made possible through the generosity of Mrs. T. B. Blackstone. A branch Medical Library has also been established in the School of Medicine, in which are over two thousand books, and which regularly receives about forty medical journals.

The Library is now under the supervision of a trained librarian, and is open during the day and in the evenings for the convenience of students.

COLLEGE ORGANIZATIONS AND STUDENT ACTIVITIES.

Students' Self Government. For the last few years the control of the Commons has been in the hands of the students themselves, who elect their own committees and officers, and appoint their own assistants. The sphere of self-government has now been considerably extended, so as to include matters connected with dormitory discipline, and the general maintenance of cleanliness and order in the students' quarters. The Student Self-Government Council also acts as a means of self-expression of the whole student body, and as a coordinating link with the faculty.

Athletics. The University possesses its own athletic track, football fields, tennis courts, basketball courts; volley ball courts, and baseball grounds, which are under the control of a special Athletic Association consisting of representatives of the student body and of the staff. Physical exercise is required of all students of the University except those who are exempted on medical certificate, and a full-time physical instructor devotes himself to this important branch of education.

During the past two years the University has secured several notable successes in athletic meets in China. An Annual Track Meet for the students of the University is also held every spring, and a Provincial Inter-High School Meet is organised by the University on the occasion of the National Holiday (October 10th).

Medical Inspection. Every student in the University is given a thorough physical examination annually by the University Health Officer and his associates, and careful records are kept of the physical condition of each student and of any elements of weakness requiring supervision. The fact that the University Hospital and Out-Patient Dispensary form part of the general University buildings makes it possible for all students to obtain expert medical advice, whilst cases needing special treatment or nursing are cared for in the hospital wards.

Religious Life. Apart from the regular Morning Chapel and the University Service on Sunday mornings, the religious life of the student body largely centers in their own Christian Associations in each of the three Schools and in the School for Nurses. The young women students have their own Association. During the past year these associations have been federated so that united action and service might be facilitated. Besides these associations there is a Student Volunteer Band, and some devotional groups which have sprung up spontaneously. The students' religious activities include meetings for inspiration and prayer, Bible study groups, social service work, evangelistic addresses in the hospital wards and Extension Department, teaching and singing in the Sunday-schools and churches of the city, and attendance at summer conferences. The custom has been started of having an annual retreat for the leaders of the student body. At these retreats, which are held on a nearby mountain, the chief concern has been the problem of developing a unity of Christian spirit among the students, who come from many different parts of the country and speak may different dialects.

The University Choir. The University Choir is composed of men and women students and faculty members from all departments of the University. The director is the Rev. S. C. Harrisson. There is a regular weekly meeting for practice. The choir helps to lead in the worship at the Sunday morning service, and the members from the Arts and Theological Colleges assist with the music of the daily

chapel services. This organization gives an opportunity for a musical training and service which will be of great value to the members when they enter other communities which need this special form of service.

The English Clubs. With the multiplication of activities and courses carried on through the medium of the English language there has been a corresponding increase in the student interest in this subject. An outlet for those who wish to practice their attainments in this language is offered by the two bodies known as the Upper English Club and the Junior English Club, organized in 1924. The former includes students in the senior courses and the latter those in the junior and Pre-Medical courses. Nearly one hundred members are at present enrolled. Members of the staff of the English Department act as advisors, but the responsibility for the preparation of programs and the administration of club affairs depends on the student officers. The English Clubs aim not only to assist the work of formal instruction in the Department of English, but also to act as a unifying influence among the various groups and colleges of the University.

The Natural Science Association. The Natural Science Association draws together students in Arts and Science who are specializing in biology, chemistry, and physics, as well as students in medicine and pre-medicine. The aim of the Association is to supplement class-room activities and to provide greater opportunity for student initiative in the preparation of reports and in simple scientific investigations. Monthly meetings take the form of lectures by outside speakers and reports by student members. The Association also gives its attention to the writing of articles of popular scientific interest, and offers annual prizes for the best reports on selected topics of current interest.

Other Extra-curiculum Activities. A large number of other extra-curriculum activities are organized and conducted by the students. These for the most part take the form of social or religious service, such as the conducting of regular Night Schools for the children of the district and for the University employees; the holding of Vacation Day Schools in various centers during the summer holidays, and the like. The Extension Department, with its convenient social rooms and large crowds of visitors, affords unrivalled opportunity for all forms of service which brings the students into direct contact with the community. A Social and Religious Center is conducted at a short distance from the University by one of our Theological gradutes, and many forms of community service are carried on there.

The students also attend in large numbers the General University Lectures which have been arranged each year, in which various members of the faculty discuss topics of popular and general interest; and from time to time special lectures are arranged for the whole student body, as opportunities are provided by the visits of educational and religious leaders from other parts of China or from the West.

THE ALUMNI ASSOCIATION.

The University Alumni Association was organized at a meeting held in Weihsien November 4th, 1916. Graduates of any of the three Schools of the University, and of the former colleges at Tengchow, Tsingchowfu, and Weihsien, from which the University has been formed, are all considered as members of the Association. At the present time the alumni of the University are more than nine hundred in number.

The Alumni Association has shown unusual interest and activity during the last two years. Perhaps the most conspicuous of its achievements during that time has been the erection of the beautiful new Alumni Gateway which was formally presented to the University on June 17th, 1924. The Association has also contributed generously to "CHEELOO", the Quarterly University Magazine, which is sent to each alumnus and serves to keep all the graduates in intimate touch with the life and progress of the school.

The present officers of the Alumni Association are:— Rev. I Hsing-Ling, President; Mr. Ch'in Yao-T'ing, Vice President; Mr. Wang Chi-Chei and Mr. Wu Chin-Ting, Secretaries; and Mr. Chao Hsi-Hsiu, Treasurer.

The Association also elects two members of the University Field Board of Managers, its present representatives being Mr. Lien Chih-To and Mr. Sung Chuan-Tien.

ENTRANCE REGULATIONS

I. GENERAL REGULATIONS

Admission to University. Admission to Shantung Christian University from middle schools is by the general matriculation examination, or by certificate. In addition, the student's school record for the six years of middle school work must be presented, and the evidence of this record will have considerable weight in his acceptance or rejection. The other method of gaining entrance, by transfer from another college, will be taken up later.

First:—The student wishing to enter the University should procure application blanks from the Director of Admissions. These blanks should be filled out and sent to the Director as soon as possible, but the third blank (school record) should be sent only after the student has finished his middle school course, so that the records therein may be complete.

Second:—If the student is to enter by examination, he should select the two subjects in which, in addition to the three compulsory examinations, he will sit for examination. He should make sure that he has received a receipt from the University for the examination fee of one dollar, and that both he and the University know at which centre he will sit for examination and in which subjects he will be examined. If the student is to enter by certificate, he should make sure that the certificate as well as the application blanks are filled out and sent to the University several months before the date of entrance, so that there may be no delays in entrance in case questions arise in connection with these papers.

Third:—After the University has accepted the results of the examination and the records on the blanks as satisfactory, and has informed the student of this fact, the student should come to the University at a date early enough to ensure the taking of the University medical examination in the week preceding registration, the securing of a dormitory room, and the registration and payment of fees on the prescribed date.

The scholastic work of Shantung Christian University is carried on in three Schools:—the School of Arts and Science, the School of Theology, and the School of Medicine. The work in the School of Arts and Science presupposes six years of middle school work. The entrance examinations are based on this amount of preparatory work, and application blanks should give evidence of this amount. Only under exceptional conditions, carefully stated, will admission be granted to students with less preparation.

The work in the School of Theology presupposes at least a one-year Pre-Theological Course of college grade. This course may be taken in the School of Arts and Science, and it has the same general entrance requirements as the other courses in that School. The work in the School of Medicine presupposes a two-year Pre-Medical Course. This course may also be taken in the School of Arts and Science, and it has the same general entrance requirements as the other courses in that School.

Application for Entrance. Candidates for entrance to any of the Schools or courses of the University are required to present an Application for Entrance, made on the blank forms furnished by the University, which will be supplied by the Director of Admissons. This Application for Entrance is in three parts:—(A) An application blank to be filled out by the candidate; (B) A medical certificate filled out and signed by a qualified physician; and (C) A certificate of the scholastic work and moral character of the candidate to be filled out by the principal or headmaster.

Application for admission (A) must be accompanied by the medical certificate (B), and by a photograph of the candidate duly certified by the applicant and by the principal or headmaster of the school last attended. If the applicant expects to enter by the matriculation examination, application (A) must be accompanied by an examination fee of one dollar. No applicant will be admitted to an examination without a receipt for this examination fee signed by the Director of Admissions. Application (A) may be sent to the University at any time during the year prior to the date of admission, but *at the latest must be filed one month before the time set for the examinations. Candidates making application after June 1st will experience great difficulty in taking the entrance examination and in receiving consideration of their applications.*

These Applications for Entrance should be filled out as completely as possible. When there is doubt as to a candidate's admission, considerable weight may be given to his record of specific experience and unusual qualifications. No results of entrance examinations will be reported, or application for admission be approved, until Application (A), (B) and (C), as well as the photograph of the candidate, have been filed in the office of the Director of Admissions.

Physical Examination. Sound physical health is essential for efficient University work. It will aid the University and in the end be to the interest of the applicant if the medical examiner, when filling out the medical certificate, will refuse to pass a student who is not robust enough to pursue a university course of study. For purposes of record, in addition to the Medical Certificate, the University requires each new student to take a medical examination at the University before he registers. New students, therefore, should arrive at the University a few days before the day set for registration.

Intelligence Test, An intelligence test is given all candidates for entrance, whether entering by examination or by certificate. This is not an examination in the subject-matter of the middle school course; it is to test common sense and general fitness for university work, and no preparation is necessary. For the year 1925 it will be used for record and future reference rather than for the determination of the candidate's entrance to the University, and will be given on the day before registration and at the University only.

Entrance by Certificate. Middle schools which maintain certain high standards will be accredited. A student who has graduated from one of these schools with a high record of achievement, and who presents a certificate from the principal or headmaster stating that he is well qualified in character and ability to undertake university studies, will be received without examination. In all cases the usual Application for Entrance must be presented.

Admission of Women. Women are admitted to the Pre-Medical, Pre-Theological, and Education Courses of the School of Arts and Science, and to the School of Medicine and the School of Theology. This entrance is subject to the same regulations and conditions as for the men students.

Entrance with Advanced Standing. Students who have satisfactorily completed at least one year of work at a recognized institution

of college or university grade may be admitted to such advanced standing as their previous records may warrant. In filing applications for admission with advanced standing, students should furnish a complete record of their preparation in the middle school, and of their college work. Before being admitted, such students must file certificates of honorable dismissal, or their equivalent, from the college whence they are transferring, and also a medical certificate.

Credit for Summer School Work. Properly qualified students taking subjects of university grade in the University Summer School may register for University credit for work done in that school. Summer School opens in 1925 on July 1st. For further information see the bulletin of the Summer School.

Post-Graduate Students. Graduates of recognized institutions of college or university grade will be received for post-graduate work in the School of Arts and Science and the Theological School on presentation of proper credentials.

Graduates of medical schools are also received for registration in the Medical School as special students. They are allowed to attend classes, clinics, operations, etc., on the same conditions as undergraduate students, but it is not possible to arrange special exercises for their instruction. Inquiry may be made of the Dean in regard to terms.

Special Students. Students who do not expect to finish their university course, or who are not working for a diploma or degree, may be received as "Special Students". Each case will be considered on its merits, and such students admitted only by specific action, except that applicants who have graduated from middle school and have taught three years may, without specific action, be admitted as special students in education. The general regulations governing entrance to the University must be complied with. Special students in the Arts College are required to pay a special fee of five dollars.

Registration. Before attending any University exercise each student must present himself at the office of the Registrar and there file a registration blank giving such information as may be required for the University records. New students will then select their major subject and receive a course card, after which the required fees should be paid to the Treasurer. The student's statement of courses can be prepared only by consultation with the Student Advisor for the major course in which the student is registered, and this statement must be signed

by the Dean. Students registering late are charged an additional fee of one dollar a day up to a maximum of three dollars. Late registration after three days is only on approval of the Dean. No student may be received later than two weeks after the beginning of the term except by special action of the Committee on Admissions. Each person whose registration has been completed will be considered a student of the University and subject to the regulations of the University during the period for which such registration is held valid.

2. ADMISSION TO SUB-FRESHMAN YEAR.

Entrance to the Sub-Freshman Year is by examination only. Candidates for entrance to this year must present Applications for Entrance (A), (B), and (C), and comply with the other general regulations governing entrance to the University. Candidates must present satisfactory evidence of the completion of five years of middle school work, and must take an examination similar in subjects and regulations to the General Matriculation Examination. This examination will be based on the work of a five-year middle school course. It will be given at the same time as the General Matriculation Examination. Students in the Sub-Freshman Class who wish to enter the University Freshman Class are required to take the General Matriculation Examination, with this exception:—students who receive a rank in their class among the highest thirty percent may be admitted to the Freshman Class without examination. The Sub-Freshman Year will be discontinued after the school year 1925-26, and its work taken over by the University Middle School.

3. ADMISSION TO THE COLLEGE OF ARTS AND SCIENCE.

(INCLUDING PRE-MEDICAL AND PRE-THEOLOGICAL COURSES).

Entrance Examinations. The examination admitting to the Freshman Year of the School of Arts and Science is known as the General Matriculation Examination. This examination is held each year, commencing the first Monday of July. The date for 1925 is July 6th, 7th, 8th. ***Registration for the examination and requests for the examination questions must be sent to the Director of Admissions not later than June 6th.*** Each registration for the examination must be accompanied by an examination fee of one dollar. No

candidate will be admitted to an examination without holding a receipt for this examination fee signed by the Director of Admissions.

This examination is held regularly at Tsinan in the University buildings, but may also be held at any of the following or other places from which there is a sufficient number of applications:

Tsinan	Shanghai	Hwaiyuan	Sianfu
Weihsien	Tsingchow	Weihweifu	Chefoo
Peking	Hankow	Taiyuanfu	Suchowfu, Ku.

By special arrangement the University of Hongkong Matriculation is accepted in lieu of the General Matriculation Examination of this University.

Regulations for the Conduct of the Examination. Uniform examination paper furnished by the University must be used. The papers will be numbered and no other marks indicating the identity of either the examinee or of his school may appear on the paper.

In examinations in Mathematics or in subjects requiring mathematical demonstrations, and in Essay papers, all the work done must appear on the papers which are submitted to the examiner, and processes as well as results will be considered in fixing the grades.

The language to be used in the examinations is understood to be Chinese, except in the examination in English; but in the General Matriculation Examination students whose preparation either wholly or in part has been in the English language may, at their option, take the examination in such subjects in either English or Chinese.

Examination Subjects. Candidates sitting for the General Matriculation Examination are examined in five subjects. Three of these subjects are compulsory and two are elective. The subject-matter on which these examinations are based is described in the syllabus of University entrance subjects (see page 22).

(a) Compulsory Examination Subjects.

1. *Chinese Language and Literature.*
   An essay, either in Mandarin or Wenli, of not less than 300 characters, is required.
2. *English Language.*
   This examination may be waived in the case of Pre-Theological students who are not seeking a degree, but in this case another subject must be chosen from the elective groups so as to make a total of five examination subjects.

3. *General Mathematics.*
   Since some candidates in 1925 may not have been prepared in the more practical problems of arithmetic, algebra, and geometry of which this course consists, the examination this year will contain a number of elective questions based on the older type of examination.

These compulsory examinations are in the "tool subjects", the subjects in which a student must be well grounded in order to be able to do University work.

(b) Elective Examination Subjects.

The candidate will choose two subjects from the following list, but not more than one subject from any group. This choice must be made before the candidate enters the examination and should be made a sufficient time in advance to permit of adequate preparation. Pre-Medical candidates are required to choose one of their two elective subjects from the Natural Science Group.

Group A. Natural Science
1. Physics
2. Chemistry
3. Biology

Group B. Political Science
1. Chinese History
2. Western History
3. Civics

Group C. Mathematics
1. Algebra
2. Plane and Solid Geometry
3. Trigonometry

Group D. Geography

Group E. Religious Education

A candidate taking an examination in natural science must present his laboratory note-books certified by his teacher and by the middle school principal or headmaster. These will be credited as part of the examination. The examination as well as the notebooks must give evidence that the student has had individual work in the laboratory and that he is familiar with the fundamentals of laboratory technique and physical measurement.

Pass-Grade and Conditions. The pass-grade is 60%. Students failing in one subject may be allowed to enter the University, provided that their grade in that subject is not less than 40% and that their general average for all subjects (including that in which they failed) reaches the minimum of 60%. This failure in an entrance examination subject constitutes a condition. When such a condition is allowed it must be removed by examination not later than one year from the date of entrance. To be admitted with a condition, a candidate's total record (school record and examination record) must be such as to show clearly that he is a desirable student.

Middle School Subjects Offered for Entrance. A unit of study in a middle school is defined as one 45-minute period of prepared classroom work per week throughout one semester in the junior middle school, or one 50-minute period of prepared classroom work per week throughout one semester of the senior middle school. Two periods of shop or laboratory work and the like shall be considered equivalent to one period of classroom work. The length of a semester should be from eighteen to twenty weeks.

The work of a six-year middle school should approximate 300 units. The University is prepared to recognize for entrance credit any subject having an established place in the middle school curriculum, in which adequate instruction is given, and which produces satisfactory results.

SYLLABUS OF MIDDLE SCHOOL SUBJECTS

The following brief statement will indicate in general the attitude of the University in judging the preparation deemed necessary in entrance subjects. No attempt is made to describe in detail all or any of the subjects which may be included in the middle school curriculum or offered for entrance. The chief purpose of this syllabus is to indicate in general what preparation is necessary for the entrance examinations.

No syllabus is included here for the middle school courses in Civics and Geography. This is because the text books and methods of instruction at present in use are neither sufficiently uniform in material nor adequate in treatment. Requests for examinations in these subjects must be accompanied by a full statement of the texts used and the ground covered. Only when the text and the ground covered seem to be adequate will the request for an examination be granted. The examination will in general be based on the course which has been studied by the student sitting for the examination.

Chinese History. (18 to 25 units).

The preparation in Chinese History should include the following topics: The learning and industry of the Former Han Dynasty; the learning, religion, and industry of the Later Han Dynasty; the learning and religion of the Eastern Tsin Dynasty; the learning, religion and industry of the Northern and Southern Ch'ao Dynasties; the learning, religion, and industry of the T'ang Dynasty; the learning and religion of the Northern and Southern Sung Dynasties; and also learning, religion, and industry under the Yuan, Ming, and Ch'ing Dynastics and under the Republic.

Chinese Language and Literature. (60 units).

There is so little uniformity among middle school courses in Chinese Language and Literature that it is impracticable to enforce detailed entrance requirements. The entrance examination is intended to test the student's ability to use the language in expressing ideas clearly and properly, and to test his general knowledge of the content of Chinese Literature. Schools should emphasize the methods of teaching, require the reading of newspapers and magazines, and spend considerable time on Modern Chinese. We would further recommend that in addition to the usual weekly essay there be some practice in practical composition once a week.

English. (60 units).

The primary aim of instruction in English in middle schools is clearness. Based upon grammatical correctness, which is the peculiar goal of elementary English conversation and composition, this is the quality by which the University matriculation examinations are rated, both for General Arts and for Pre-Medical candidates.

I. Work in English Conversation should be given at least two recitations a week throughout the six years of middle school. The student's efforts should be mainly devoted to the acquisition and the correct use of a limited vocabulary of every-day spoken English. The vocabulary found in the first four books of the Mastery of English Series is perhaps best suited and most convenient for such a foundation. For freshman classification, the University uses the more complete "Fundamental Vocabulary" of the University of Iowa. Entrants are expected to be familiar with the first three thousand words of this list. (Sample sets are on sale at the Bookroom of the University).

II. English Composition requires at least one or two recitations a week throughout the middle school course. The greater part of the student's time should be given to informal composition of sentences, paragraphs, and short themes. In the senior middle school however, some attention should be paid to the application of the fundamental principles of formal grammar. Among other texts the following are suggested as especially useful; Graybill's "Writing English", Wooley's "Written English", Fong Sec's "Intermediate Composition", and Tseu's "Specimens of Short Essays".

III. English Literature must be left for the most part to the collegiate course, but an introduction to a few foreign literary models may be given through senior middle school courses, using the collections of short stories or the series of English and American classics adapted to Chinese schools. Rapid sight reading, silent reading, and round-table discussions of these books in the last year of middle school should provide a basis for more advanced study in the University.

IV. Standards for English in the University correspond to those of the "Diagnostic English Mastery Chart" (published by Edward Evans and Sons, Ltd.). For 1925 the matriculation standards for the freshman class are fixed at 60 year-periods of English and a 'T' score of 56 or over. Any student with a 'T' score averaging less than 50 in such tests as the vocabulary, grammar-idiom, auditory comprehension, and silent reading tests, cannot do satisfactory work in the freshman class.

Mathematics.

(*a*) *General Mathematics.* (10 to 15 units).

General mathematics should consist, in correlated form and with the use of practical and experimental methods, of the fundamental principles of arithmetic, algebra, geometry, and numerical trigonometry. The following topics should be studied:

Linear equations in one unknown;
Ratio and proportion;
Quadratic equations in one unknown;
Numerical trigonometry, use of sine, cosine, and tangent in the solution of simple problems involving right triangles;
Rational use of significant figures;
Graphic representation of statistical data;
The linear function, $y = mx + b$;
Graphic solution of problems;
Empirical curves, fitting curves to observations;
Simple formulas, meaning and use;
Negative numbers, meaning and use;
Simultaneous linear equations in two unknowns;
Graphs as methods of representing dependence;
Computation with approximate data;
Variation;
The quadratic function $y = ax^2 + bx + b$;
Use of tables in computation other than logarithms;

It is recommended that the middle schools give careful attention to the thorough mastery of these tool subjects and of the mathematical technique which they involve, giving ample opportunity for the ready application of the principles to practical situations and problems.

The scope and character of the course are shown in the following text books: "The New System Series of Correlated Mathematics for Junior Middle Schools", and "Breslich's Mathematics", Books I and II.

(*b*) *Advanced Middle School Mathematics.* (10 to 15 units).

Entrance examinations in advanced mathematics are based on (a) a course in Combined Mathematics or courses in Algebra and Plane Geometry; (b) Solid Geometry; and (c) Plane Trigonometry.

(*1*) *Algebra.* (8 to 10 units).

The course in Algebra should cover the following topics; Algebraic addition, subtraction, multiplication, and division; Special methods in algebra; Factors; Highest common factor; Lowest common multiple; Fractional equations; Simple equations; Simultaneous simple equations; Simple equations graphs; Inequalities; Involution and evolution; Theory of indices; Radicals; Radical equations; Surds; Quadratic equations; Simultaneous quadratic equations; Roots; Quadratic equations graphs.

(*2*) *Plane Geometry.* (3 to 5 units).

The course in plane geometry should cover the following: The straight line; The circle; Proportion; Similar polygons; Area of polygons; Rational polygons.

(*3*) *Combined Mathematics.* (10 to 15 units).

With the foundation of the course in General Mathematics in the junior middle school, the work in the senior middle school should consist of a year, or a year and a half;—half a year being given to Demonstrative Geometry, half a year to Algebra, and half a year to a review of General Mathematics with the addition of a study of the use of the slide rule, and the use of Logarithms in computation.

(*4*) *Solid Geometry.* (3 to 5 units).

The work in Solid Geometry should include the following: Space—lines and planes; The Polyhedron; Cylinder; Cone; Pyramid; and Sphere.

(*5*) *Plane Trigonometry.* (5 to 8 units).

The work in Plane Trigonometry should include the following: Functions of acute angles; Right-angled triangles; Methods of measuring triangles; Oblique triangles; Problems of measurement; Tables and construction.

Religious Education. (20 units).

The courses in Religious Education studied in the junior and senior middle schools and offered for university credit should cover in general the following topics. The entrance examination will be based on these topics, but a choice of questions will be allowed since a complete covering of all topics is not expected.

1. *Old Testament Biography.*

   Study the main points in the lives of Abraham, Moses, Samuel, David, Solomon, Elijah, Amos, Isaiah, Jeremiah, Nehemiah, Ezra.

2. *New Testament Biography.*

   The life of Jesus Christ; and the lives of Paul, Peter, John, and Mark.

3. *The lives of great men and women of Christendom, as:*

   St. Augustine, Martin Luther, St. Francis, Wycliffe, John Knox, George Fox, Elizabeth Fry, Florence Nightingale.

4. *Old Testament History.*

   a. Old Testament geography.
   b. Early Hebrew life and history before the settlement of Canaan.
   c. Social conditions before the establishment of the kingdom.
   d. The rise of the kingdom and the causes and results of its division.
   e. The period of the two kingdoms; emphasizing the influences of Syria, Egypt, Assyria, and Babylonia.
   f. The history of Judah after the fall of Samaria.
      The work of Isaiah, the reform of Josiah, and the work of Jeremiah.
   g. The dispersion and the religious significance of the exile.
   h. The return to Jerusalem.—The work of Nehemiah and Ezra.
   i. The sources of the Old Testament and the history of its literature.

5. *Studies in the life of Christ, emphasizing his character, work, and teachings.*

6. *Studies in Acts and the Pauline letters.*

The following texts, or similar ones, cover the ground of the topics given above.

Luce, Life and Teachings of Christ	Mission Book Co.
" The Acts and Epistles	" "
" A Harmony of the Gospels	" "
Wright and Chen, Old Testament History	Kuang Hsueh Pub. Co.
Chen and Rawlinson, Historical Life of Christ	Mission Book Co.
Rauschenbusch, Social Teachings of Jesus	Kuang Hsueh Pub. Co.

Also consult

Mandarin Bible Dictionary	Religious Tract Society.
Hastings Bible Dictionary	Kuang Hsueh Pub. Co.
Hayes, Church History 2 vol.	" " " "
Christian Biographies	" " " "
Allen, Life of Martin Luther	" " " "

Science. (Biology, Chemistry, Physics).

A candidate taking an examination in any of the above subjects must present his laboratory note-books, as a record of the experiments which have been performed by the student himself. Each experiment should be initialed by the instructor. The note-books as well as the examination must give evidence that the student has had individual work in the laboratory and that he is familiar with the fundamentals of laboratory technique.

The note-books must be certified by the principal or head-master of the middle school; and should be sent—preferably by the school directly, rather than by the student—to the Director of Admissions of the University.

It is to be understood that note-books which contain merely notes taken during the instruction periods, notes on demonstrations, or notes copied from text-books, cannot be considered as fulfilling this requirement.

Biology. (6 to 10 units).

The course should require three double-periods of laboratory work and two single-periods of recitation per week throughout the year.

The scope of the requirement in biology is indicated below:

I. How Plants and Animals Live.

Environment, adaptation and adjustment, orderly arrangement of kinds, life of Artemisia, life of Honey-bee.

II. Relation of Life to Food.

(1) In Plants:—Structure and work of roots, soils and soil conservation; structure and work of stems; forestry; structure and work of leaves.

(2) In Animals:—Food of animals; digestion; respiration and circulation.

III. Responses.

Examples of simple responses; chemical senses; sound and hearing; light and vision; tactile senses; nervous system of animals; instinct, habit, and intelligence; effects of poisons.

IV. Growth and Reproduction.

(1) Life histories of plants:—An alga; a moss; a fern; a flowering plant; pollination; seeds; fruits; seed distribution; propagation of plants.

(2) Life histories of animals:—A fish; a frog; a bird; a mammal.

(3) Varation and heredity.

V. Interrelation of Life Forms.

Parasites; symbionts; saprophytes; commensals; predators; slaves.

VI. Applications of Biological Principles.

Seed selection; animal breeding; causes of disease; prevention of disease; carriers of disease (fly, mosquito, etc.) plant disease and controls; weed problem; parasitic worms; insect enemies and their control; fish culture; birds in relation to man.

Special stress should be placed on the preparation of the laboratory reports. The student should be trained to present his facts in as concise and systematic form as possible. Tabulation, and simple, unshaded, outline drawings are the most satisfactory ways of recording the observations. Each section of the subject should be followed by a review and summarization which will insure that the students have grasped the principles underlying their observations.

Theories and material of philosophical interest alone should form no part of the course. The course should be in every way practical.

The following texts are recommended for the guidance of the teacher:—

Atwood— Civic and Economic Biology.
Gruenberg— Elementary Biology.

Hunter— Civic Biology.
Hodge and Dawson— Civic Biology.
Gruenberg and Wheat— Student's Manual of Exercises in Elementary Biology.
Bergen and Davis— Laboratory and Field Manual of Biology.
Hunter— Laboratory Problems in Civic Biology.
Gruenberg— Manual of Suggestions for Teachers.

Chemistry. (6 to 10 units).

At least half of the number of units of credit in chemistry should represent laboratory work. Ten units of credit will represent about two periods of recitation work and three double-periods of laboratory work per week for two semesters.

The topics covered in the middle school chemistry course should include the following:

Use of the balance;
Principles of the quantitative method;
The atmosphere and oxygen;
Nitrogen;
Carbon and its compounds;
Fuels;
Water and hydrogen;
Acids, bases;
Chlorine and the halogens;
Salt, soda, saltpeter;
Representative metals;
Chemistry of plant life;
Chemistry of animal life;
Foods and nutrition.

The method of teaching the chemistry course is far more important than the subject matter; and credit will be given according as it is evident that the student has received an intelligent grasp of the subject and its relation to the problems of his environment, rather than evidence of having studied a certain number of prescribed topics. All topics should be introduced through the medium of the laboratory, and the other class periods should be used essentially to supplement the laboratory work. A thoroughly inductive treatment is desirable. The emphasis in middle school chemistry should be constantly on applications. The course should be planned definitely to interpret in a scientific way the chemical phenomena of everyday life. Theories should not be stressed; but an understanding of the quantitative method, and training in accuracy and exact observations, are an essential part of the course.

It is preferable that the middle school course in physics should precede the course in chemistry.

The scope and general method of treatment of the course may be learned by consulting one of the following commonly used texts:—

Black and Conant— Practical Chemistry, with
Black— Laboratory Experiments in Chemistry.

McPherson and Henderson— Elementary Study of Chemistry, with
McPherson and Henderson— Exercises in Chemistry.

McPherson and Henderson— Chemistry and its Uses, with
McPherson and Henderson— Exercises in Practical Chemistry.

Coulthard— First Book of Chemistry.

(6 to 10 units).

Physics.

The requirement in Physics is a course in elementary Physical Measurements, which will give the student a working knowledge of:

1. Concepts in Physics such as length, area, volume, mass, weight, density, specific gravity, time, force, pressure, velocity, acceleration, work, efficiency, heat, temperature; the nature of coefficients such as expansion, friction, etc.; with the units in which each are measured.

2. Simple laws of reflection and refraction of light, formation of images by mirrors and lenses, using the ideas of elementary geometric optics.

3. The nature of periodic motion, using as illustrations pendulums, vibrating springs, water waves and sound waves; and familiarity with the terms period, wave length, amplitude, frequency.

4. The magnetic effects of electric currents and Ohm's Law, with simple applications.

The course should be built up about laboratory experiments performed by the individual student. These should aim to be mostly quantitative in nature. The student should know how to observe and record data in an intelligent way, as well as to be able to present his results clearly and, whenever possible, graphically.

The note-book record should clearly show the object of the experiment, the apparatus used, description of method with drawings, data as observed, and results and conclusions.

It is suggested that Stifler's "Exercises in Elementary Physics" be considered as indicating the minimum requirement.

Other texts suggested for reference are:—
Watson— Elementary Practical Physics.
Millikan, Gale, and Bishop— Laboratory Physics.
Shih Yien Chiao Cheng (Translation from Millikan and Gale's Laboratory Physics).
Carhart and Chute— Laboratory Physics.

Western History.

A. Pre-Historic Times.

I. Earliest Man.
   1. Origin of animal and human life.
   2. Dawn of civilization.
   3. Stone Age; Bronze Age; Iron Age.

B. Historic Times.

I. The Ancient Period.
   1. A brief study of the histories of Egypt, Phoenicia, Judea, Babylon, Assyria and Persia; emphasizing the outstanding features of their several cultures.
   2. The History of Greece, Macedonia and the Roman Empire, placing special emphasis upon the factors contributing to the development of the Middle Ages.

II. The Mediaeval Period.
   1. The Teutonic invasions; the decline of the Roman state and culture; the beginnings of new European states.
   2. Mohammedanism; conflict between Christianity and Mohammedanism.
   3. Feudalism; origin, decline, value.
   4. Development and spread of Christianity; the crusades; the origin, growth and power of the Papacy; conflict between Church and State; the Reformation and Counter-Reformation; religious wars.
   5. The Renaissance; the age of discoveries (America).
   6. Political development in the leading countries of Europe.

III. The Modern Period.

a) To 1914.
   1. England; revolutions; colonial and commercial policy; growth of modern democracy.
   2. France; Louis XIV; French Revolution; rise and fall of Napoleon; revolutions of 1830 and 1848; recent development.
   3. Spain; loss of the Netherlands; decline.
   4. Russia; Peter the Great; wars with Turkey; Congress of Berlin.
   5. Rise of Prussia; Frederick the Great; Partition of Poland; war with Austria.
   6. Unification of Germany and Italy; Bismark and Cavour.
   7. The United States; war of Independence; slavery and Civil War; later political development.
   8. South America; a brief general survey.

b) Since 1914.
   1. The Great War; causes and effects.
   2. Versailles Treaty; territorial changes.
   3. International organizations; League of Nations, the International Labor Organization and the International Court of Justice.
   4. The Washington Conference; attempt at limitation of armaments.

The following text-books are recommended:

1. For Pre-Historic Times:
   新學制高級中學西洋史(商務印書館).
2. For the Ancient, Mediaeval, and Modern Periods:
   新學制高級中學西洋史(商務印書館); 共和國教科書西洋史(商務印書館); 中華書局之西洋史; 新著世界史(商務印書館).
3. For the Latest Period:
   新著西洋近百年史(商務印書館); 新著世界史(商務印書館).

NOTE:—For the benefit of the schools that wish to do the work in English we would recommend the use of "A First Book of World History" by F. J. C. Hearnshaw (Macmillan and Co. London. 1924. Pages IX: 194). Although the title suggests that this is a General History, it really is a first book of Western History.

UNIVERSITY FEES AND DEPOSITS.

The revised schedule of University Fees and Deposits, due at the beginning of each semester, in local currency, is as follows:—

TUITION:	
Arts and Science Courses	$25 per semester
Pre-Theological Course	10 " "
Pre-Medical Course	30 " "
ATHLETIC	$2 " "
DORMITORY	$5 " "
BREAKAGE DEPOSITS—GENERAL AND LABORATORY:	
Arts and Science Courses	$3 annually, payable in fall
Pre-Theological Course	3 " "
Pre-Medical Course	8 " "
*Chemistry and Physics Laboratory	3 " "
†Light Deposit	4 " "
KEY DEPOSIT	$1 returnable on return of key
DEPOSITS FOR BOARD	$22 per semester

No refunds of fees are to be made after the first fortnight of each semester, except by special approval of the Dean.

A ruling of the University provides that fees may be raised at any time at the discretion of the Field Board of Managers.

Student Trips. Occasional trips for students to points of interest and instruction have been arranged. These have been conducted personally by members of the faculty. The cost of the same have been paid in part or entirely by the students themselves. At all times such trips are entirely optional, and students are at liberty to refrain from participating in them if they feel they cannot afford them.

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*Additional deposit to be paid only by students in the Arts and Science Course majoring in Chemistry and Physics.

†Deposit to be made by all Arts and Science students, to be checked pro rata for any excess of light used above the allowance provided in the University budget. (In effect from Sept. 1, 1925).

STUDENT EXPENSES.

The tables below furnish estimates of the annual expenses of a student in the School of Arts and Science. Travel and vacation expenses are not included. Some students by bringing clothing from home make this item lower than what is given below. Men and women students in the same School and Course have approximately the same expenses.

ARTS, SCIENCE, AND EDUCATION COURSES.

	Low	Average	High
Tuition	$50	$50	$50
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Light Deposit	4	4	4
Breakage Deposit	3	3	3
Laboratory Fee	3	3	3
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	15	25	50
Clothing	24	35	70
Contributions	3	5	8
Miscellaneous	10	25	40
TOTAL	$171	$209	$287

PRE-THEOLOGICAL COURSE.

Student expenses in this Course will approximate the lowest column given above, with the exception of tuition which is $20. Thus the total yearly expense will vary from $141 up.

PRE-MEDICAL COURSE.

	Low	Average	High
Tuition	$60	$60	$60
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Deposit & Laboratory Fee	8	8	8
Light Deposit	4	4	4
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	20	35	60
Clothing	24	35	70
Contributions	3	5	8
Miscellaneous	10	30	45
TOTAL	$188	$236	$314

Self-Support of Students.

A few students find it possible to earn part of their expenses while attending the University. These are usually junior or senior students who can secure position as tutors and part time teachers in the city, or as assistants in various departments and laboratories in the University. No student should come to the University expecting to earn part of his way without first making sure that he can find a position. Students earning part of their expenses should not plan to undertake the full number of units of study during the semesters in which they are doing this outside work, and should expect to spend more than the usual number of years in residence.

BULLETINS OF INFORMATION.

The following Bulletins are published by the University, and may be obtained by application to the Registrar of Shantung Christian University:—

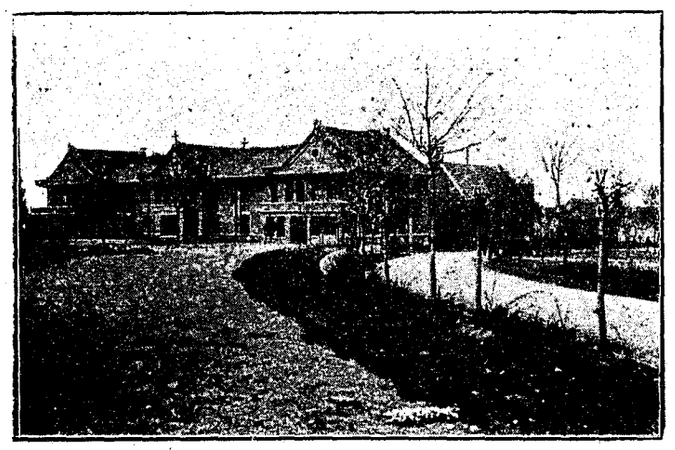
Bulletin No. 43. Entrance Regulations (Chinese).

Bulletin No. 44. General Regulations of Arts College (Chinese).

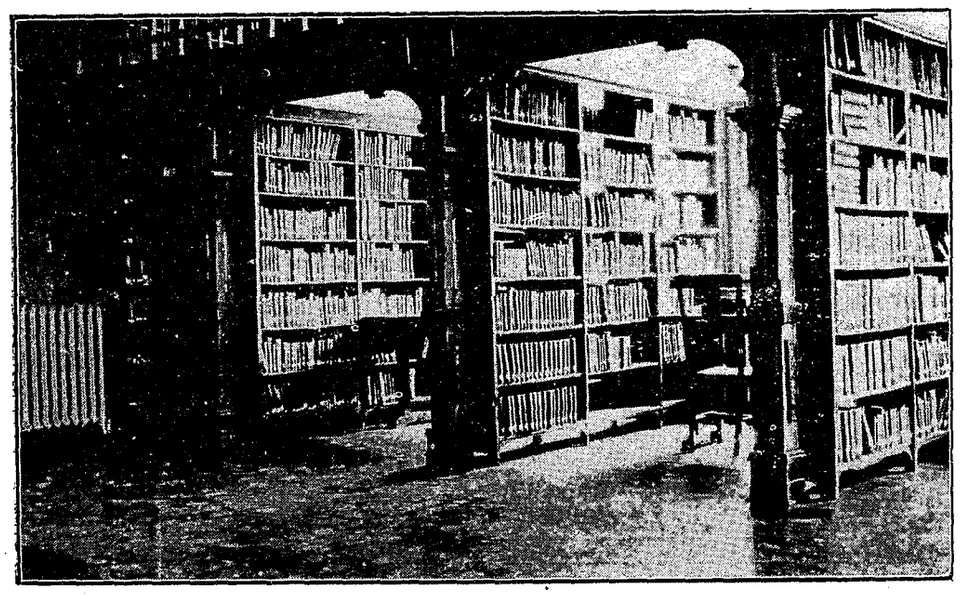
Bulletin No. 45. Entrance Regulations (English).

Bulletin No. 47. Bulletin of General Information (English).

Bulletin No. 48. School of Arts and Science (Chinese) (in preparation).



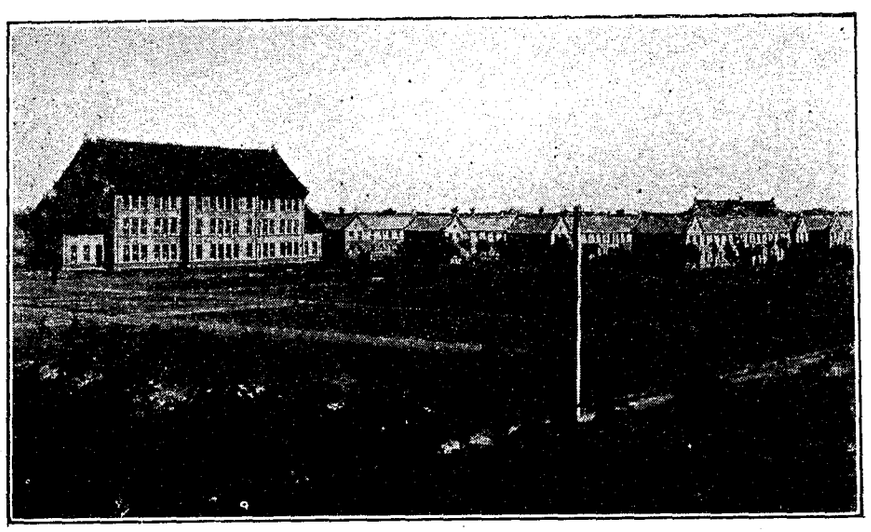
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STUDENT DORMITORIES AND MATEER HALL

COURSES OF STUDY

IN THE

SCHOOL OF ARTS AND SCIENCE

The School of Arts and Science offers an Arts and Science Course of four years, a Pre-Medical Course of two years, a Pre-Theological Course of one year, and a Sub-Freshman Course of one year. The Sub-Freshman Course will be discontinued after the year 1925-26 and its studies will be given in the University Middle School. For regulations regarding the entrance requirements see pages 15 to 29.

1. Pre-Medical, Pre-Theological, and Sub-Freshman Courses.

The Courses of Study in the Pre-Medical, Pre-Theological, and Sub-Freshman classes are prescribed. These courses are as follows:

Sub-Freshman Course.

First Semester	Semester hours*	Second Semester	Semester hours*
Religious Instruction	2	Religious Instruction	2
Chinese Lit. and Essay	3	Chinese Lit. and Essay	3
Chinese History	2	Chinese History	2
English	5	English	5
Mathematics	4	Western History	4
Physics	4	Chemistry	4
	20		20

Pre-Medical Course.

First Year.

First Semester		Second Semester	
Biology 1a	3	Biology 1b	3
Chemistry	3	Chemistry 4	5
Chinese	2	Chinese	2
English	4	English	4
Physics 1	4	Physics 2	4
Psychology 1	2	Religious Instruction	2
Religious Instruction	2		20
	20		

Second Year.

First Semester		Second Semester	
Biology 11	3	Biology 18	3
Chemistry 5	6	Chemistry 8	6
Chinese	2	Chinese	2
English	5	English	5
Physics 3	4	Physics 4	4
	20		20

*For definition of the semester hour of credit, see page 36.

Pre-Theological Course.

First Semester		Second Semester	
Religious Instruction	2	Religious Instruction	2
General Biology	2	General Biology	2
General Psychology	2	General Psychology	2
Sociology	4	Western History	4
English	4	English	4
Chinese Lit. and Essay	2	Chinese Lit. and Essay	2
	16		16

2. The Arts and Science Course.

General Plan of Course. The work in the Arts and Science Course is partly prescribed and partly elective. All students are required to take a certain amount of work in Chinese, in English, and in Religious Instruction. Other courses are elective, but with restrictions as to major and minor subjects. The courses of study are arranged in three groups as follows:

I. Natural Science.	II. Social Science.	III. Literature and Language.
Astronomy	Economics	Chinese
Biology	Education	English
Chemistry	History	
Mathematics	Political Science	
Physics	Psychology	
	Religious Education	
	Sociology	

Study Requirements. The study requirements for the four years of work may be stated as follows:

	Semester hours	
Required Courses:—Chinese	16	
English	24	
Religious Instruction	8	
Total of Required Courses		48
Majors and Minors:—1 Major Subject	24	
1 Minor in Education	12	
1 Additional Minor	12	
Total for Majors and Minors		48
Elective Courses		32
Total Requirements for Four Years		128

This total of 128 semester hours of credit required in order to graduate gives the student an average of 16 semester hours of study each semester. This is the amount of work carried by the average student. In special cases permission may be granted by the Dean for a student to take as many as 18 semester hours in one semester, but this will be done only on specific recommendation of the Student Advisor.

Major and Minor Subjects. Majors are offered in Chinese, Education, English, History-Political Science, Mathematics-Astronomy, Natural Science, and Sociology-Economics. A Major Subject must be chosen by each student before entering upon the first year's work. The instructor in charge of this major subject will act as the student's Advisor. The student will also select two minor subjects, one of which must be in the same group of courses as his major subject, and the other must be in Education.

Petitions to change the major subject will be granted when approved by the Student Advisors concerned and by the Dean. The student will be required to fulfill all the requirements of the new major subject.

Courses in Other Schools. Students registering in one School may also elect courses in the other Schools of the University, and will receive credit for these courses. However, courses taken in other Schools must not total more than one-third of the full number of units of credit required for graduation.

English Requirements. Much of the work in the School of Arts and Science is essentially bi-lingual, both English and Chinese being used as media of instruction. A reading knowledge of English is presupposed of all students, while some courses are given entirely in English. The requirement of 24 semester hours of study in English may be waived in part or in whole in the case of students who have reached a standard in English three years above that required for entrance. The determination of the standard reached by any given student shall be made by the Department of English.

3. General Regulations.

Selection and Change of Course. After registration (for regulations governing registration see page 18) the student will make out a Course Card with the assistance of the Student Advisor, and after

securing his approval will present it to each instructor for enrolment in the class. Whether a student is qualified for entrance into a particular class is a question to be decided by the instructor in charge.

A student desiring to drop a subject once taken up, or to take up a new subject after the course card has been filed, must secure the permission of his Student Advisor and of the Dean and of the instructors concerned.

The Semester Hour of Credit. The Unit of Study for which credit is given is the Semester Hour, which is understood to represent approximately one class period per week throughout one semester. Each of these class periods should require two hours of preparation, or subsequent reading or study. Courses of study which require less preparation will have a proportionate decrease in the amount of credit allowed. From two to three periods of laboratory work per week during one semester will receive in general one semester hour of credit.

Scholarship Grades. In reporting the standing of students at the end of each semester, the following grades are used:—A, B, C, and C—, the passing grades, corresponding in a general way to the terms 'excellent', 'good', 'fair', and 'pass'; D, meaning 'conditioned'; and E, meaning 'failed'. In grading classes, A is considered normally applicable to 1%-5% of the class, B to 20%-25%, C to 45%-50%, C— to 18%-25%, D to 5%-10%, and E to 1%-3%. This distribution of grades is advisory, and is understood to admit of a certain degree of flexibility, especially in the handling of small classes.

Conditions. A student conditioned in any subject must remove the deficiency within one calendar year or the work will be considered a failure. A condition may be removed by a re-examination, which may take place at the time of the regular examination or at a time set by the instructor concerned. Re-examinations at a special time are subject to a fee of $2.00. When a condition is removed only a pass grade ('C—') will be given. Only one re-examination to remove a condition is permitted— a failure in this constitutes a failure in the subject. The student must take the initiative in removing a condition.

Failures. A failure may be removed only by repeating the subject. Considering two semester hours of credit which are conditioned as being the equivalent of one semester hour of credit which is failed, a student who receives in any one semester the equivalent of eight

semester hours of credit conditioned will not be allowed to remove these conditions by re-examination, but must repeat the subjects concerned in order to receive credit for them.

A student who misses more than three weeks of a semester will be required to repeat the work of that semester.

Probation and Disqualification. Any student (with exception noted below) who receives in any one semester the equivalent of sixteen semester hours of credit conditioned will be disqualified for further attendance at the University. However, a first year student who receives in the first semester the equivalent of more than fifteen and less than twenty semester hours of credit conditioned will be placed on probation for the following semester. If in the following semester the student does not make satisfactory progress in his studies, he will be disqualified for further attendance at the University.

Any student thus disqualified may be reinstated only after one year, and only by specific action of the Arts faculty.

DESCRIPTION OF COURSES

IN THE

SCHOOL OF ARTS AND SCIENCE

The courses offered in the school of Arts and Science are grouped under the following subjects:

Astronomy	Economics	Physics
Biology	Education	Political Science
Chemistry	English	Psychology
Chinese History	History	Religious Instruction
Chinese Literature	Mathematics	Sociology

All courses are represented as one semester in length. Courses having odd numbers are offered in the Autum Semester, those having even numbers are offered in the Spring Semester. In cases where a course may be offered in either semester, alternative numbers are given. The number of semester hours of credit for each course (for definition of credit hour see page 36) is indicated by a figure in parentheses, thus: (4).

ASTRONOMY

(See Mathematics)

BIOLOGY

Arthur Paul Jacot, A. B., Associate Professor, Head of Department.

Ch'in Yao T'ing, (S. C. U.) Associate Professor.

K'an Hsing Wei, B. S., Assistant Instructor.

The aim of the courses is two-fold. First, they aim to induce the student to think for himself, acquire self-reliance and develop his initiative, and teach him to think and work systematically—thus preparing him for positions of responsibility and advanced work. Second, they aim to develop in the student a sympathetic understanding of, and feeling for, the life about him. With this point of view the student is better able to understand man's relation to the forms of life about him, and consequently is able to intelligently control his environment.

The course work is arranged to meet three needs: pre-medical, teacher-training, and training for advanced work in biological survey. All students taking work in this department are expected to take the general course on the principles of biology. Pre-medical students then take courses 11 and 18. Other students may elect courses which best fit their individual needs. The majority of courses are systematic and ecologic.

Laboratory periods are of three hours duration.

BIOLOGY 1a and 1b. **General Biology.** This course consists of a series of studies on the fundamental principles of life, or those factors which act upon and have built up life forms as they are. Continues throughout the year. (4, 4)

(Students who have not had general biology in the middle school will be expected to take an extra hour of lecture work per week).

BIOLOGY 3. **Civic Biology.** This course is for students specializing in education, It includes the material and represents the type of course which they will teach in the middle schools. Special emphasis is placed on collection and preparation of material and care of vivarium.

Prerequisite: Biology 1. (3)

BIOLOGY 11. **Invertebrate Zoology.** This course aims to give the student a knowledge of the structure and phylogenic relations of the invertebrate animals. The course consists of studies on increasing complexity of structure, body types, specialization of functions and habits and parasites of economic importance. It is not preeminently a pre-medical course, but a general culture course planned to deepen the students' background and knowledge of the animal kingdom.

Prerequisites: Biology 1, Chemistry 2 and 3. (3)

BIOLOGY 12. **General Botany.** The first course in botany will be a continuation of middle school botany studying the physiology, morphology, and histology of the plant body with special emphasis on types and adaptations.

Prerequisites: Biology 1 and 11, and Chemistry 2 and 3. (3)

BIOLOGY 18. **Vertebrate Zoology.** This course is especially designed for pre-medical students, the laboratory work consisting of dissection and detailed study of types of vertebrate animals as *Amphioxus*, the shark, the frog, the turtle, the bird, and the mammal. The work begins with a study of the embryological development of the chick.

Prerequisite: Biology 11. (3)

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The following courses will be conducted in English. For admission to them, students should have completed at least two years of college-grade English.

BIOLOGY 22. **Systematic Botany.** Studies of typical plants representing the more general groups of spermatophytes, including characteristics, phylogenic relationships, and groups of economic importance. Field trips for the purpose of studying the local flora and identification of spring flora.

Prerequisite: Biology 12. (3)

BIOLOGY 24. **Non-Marine Algae.** Systematic and ecological study of the local flora.

Prerequisite: Biology 22. (3)

BIOLOGY 27. **Phytogeography.** Studies and problems of geographic distribution of groups and species of plants in the Holarctic zone with special reference to groups of economic importance.

Prerequisite: Biology 22. (3)

BIOLOGY 28. **Plant Ecology.** Studies and problems in relationships of plants to their habitat and to each other, successions, etc., with the application of these principles in agriculture and economic biology. Detailed work on local formations, associations, and communities.

Prerequisite: Biology 27. (3)

BIOLOGY 31. **General Entomology.** Lectures on the characteristics of orders, sub-orders, life histories, interrelationships, crop and tree pests, and methods of control. Laboratory work includes work on insect anatomy and familiarization with larval forms of pest insects.

Prerequisites: Biology 12. (4)

BIOLOGY 32. **Systematic Entomology.** A continuation of Biology 31. Lectures on principles of classification and nomenclature, the important families with illustrations from insects of economic importance, adaptations, protective coloration, structures and habits, convergence, ecology and geographical distribution. Laboratory work includes special studies on wing veination, identification of 100 insects, and methods of collecting and preserving.

Prerequisite: Biology 31. (4)

BIOLOGY 33. **Systematic Vertebrate Zoology.** Our larger friends and neighbors, their phylogenic characteristics and relationships, life habits, and their relations to man and their environment. Lectures dealing with principles of classification and nomenclature, structural modifications, life histories and habits, protective coloration, structures and habits, adaptations, convergence, reproduction. Laboratory study of the parts employed in classification, and identification of the vertebrate animals of Shantung and North China.

Prerequiste: Biology 12. (4)

BIOLOGY 34. **Systematic Invertebrate Zoology.** Similar to Biology 33 but restricted to the invertebrate metazoa.

Prerequisite: Biology 12. (4)

BIOLOGY 35. **Protista.** Similar to Biology 33 but restricted to the protozoa and algae.

Prerequisite: Biology 12. (4)

BIOLOGY 38. **Paleozoology.** The trend of life through time and space, with special reference to the derivation of the fauna of China. Trips to the fossiliferous areas of Shantung and identification of fossils found.

Prerequisites: Biology 33 and 34. (4)

BIOLOGY 39. **Advanced Systematic Zoology.** Special systematic work on any one group of animals. Hours and credit to be arranged.

BIOLOGY 41 or 42. **Ecology.** Studies and problems in interrelationships of plants and animals and their environment, with the application of these principles in agriculture and economic biology. Detailed work in adaptation and adjustment, parasitism and predaceousness, formation of associations and communities, etc.

Prerequisites: Biology 22, 32 to 35. Hours and credit to be arranged.

BIOLOGY 43 or 44. **Limnology.** A study of fresh water life, conducted along the lines of Biology 41 but with special reference to aqui-culture.

Prerequisites: Biology 22, 32 to 35. Hours and credit to be arranged.

BIOLOGY 45 or 46. **Biogeography.** Studies and problems in geographical distribution of groups of plants and animals in the Holarctic zone with special reference to groups of economic importance. Includes the subjects of migration, centers of distribution, climates, land masses and barriers.

Prerequisites: Biology 38 and 41. Hours and credit to be arranged.

BIOLOGY 47. **Marine Ecology.** Special problems, to be worked out during the summer at Tsingtao or other places along the coast.

Prerequisite: Biology 41. Summer Course.

CHEMISTRY.

William Henry Adolph, Ph. D., Professor, Head of Department.
Wang Chi-Chei, B. Sc., Associate Professor.
Dzang Hwei-Chuen, Instructor.
Wang Li-Ch'ien, Assistant.

The courses in chemistry are arranged for pre-medical students and for the training of college and middle school teachers of science. The attempt is made to train the student in the use of the laboratory method rather than to give him a knowledge of chemical technology. The laboratories occupy the ground floor of Bergen Hall and are equipped to fill these needs. Special advanced work, not indicated in the following courses, is provided for individual students who desire to specialize in analytical and physical chemistry. College graduates may be admitted for special research work.

Before entering upon Chemistry 3, the student is presumed to have had an introductory laboratory course in the senior middle school covering the elements of descriptive chemistry. The scope of this elementary course is covered by Chemistry 2, below.

CHEMISTRY 1. **Air, Water, and Food.** A popular study of the applications of chemistry to every-day life. Lectures, demonstrations, with no laboratory work; assigned readings, reports on current scientific problems of home and community. For non-science students. (2)

Textbook—Bailey: Sanitary and Applied Chemistry.

CHEMISTRY 2. **Elementary Chemistry.** An introduction to laboratory methods in chemistry. A study is made of the more common elements and of general principles. Chemistry is presented as a means of interpreting the problems of every-day life. College credit is not given for this course. (4)

Prerequisite—Elementary Physics.

Textbook—Adolph and Tsao: Introductory Chemistry.

CHEMISTRY 3. **General Inorganic Chemistry.** Fundamental conceptions of chemistry; laboratory work accompanied by class conferences, developing the ideas of equilibrium, dissociation, solutions, etc., type study of the non-metals; constant use of the quantitative method. (3)

Prerequisite—Chemistry 2, or Entrance Chemistry.

Textbok—Tsao and Adolph: 近世無機化學.
Adolph and Dzang: 無機化學實驗教科書.

CHEMISTRY 3a. **General Inorganic Chemistry.** For students who do not have entrance credit in chemistry. This course is essentially a combination of courses 2 and 3. (5)

CHEMISTRY 4. **General Inorganic Chemistry.** E. M. F. series; colloids; study of important groups of the metals. The latter part of the course is devoted to qualitative analysis, with methods of separation, accompanied by class conferences, developing the theory of reaction, and solutions. (5)

Prerequisite—Chemistry 3.

Textbooks—Tsao and Adolph: 近世無機化學.

Adolph and Dzang: 無機化學實驗教科書.

Noyes: Qualitative Chemical Analysis.

CHEMISTRY 5. **Quantitative Analysis.** This is a course developing the concepts of modern physical chemistry, with quantitative measurements in the laboratory. The viewpoint of the kinetic theory is emphasized; a thorough study of solutions and equilibrium, drill in representative gravimetric and volumetric procedures, the theory of indicators, a study of hydrogen ion measurement, are included. (6)

Prerequisite: Chemistry 4.

Textbooks—Chapin: Second Year College Chemistry.

Chapin: Exercises in Second Year Chemistry.

Talbot: Quantitative Chemical Analysis.

CHEMISTRY 7. **Quantitative Analysis.** Review of practical problems in qualitative analysis. Advanced quantitative methods; analysis of alloys and minerals; electro-analysis; application of physical chemistry methods to precision analysis. (4)

Prerequisite: Chemistry 5.

Textbook—Talbot: Quantitative Chemical Analysis.

CHEMISTRY 8. **Organic Chemistry.** Elementary course; a survey of the more important compounds of the aliphatic series, with a briefer treatment of the aromatic compounds; laboratory study of type organic reactions, with principles of qualitative organic analysis. (6)

Prerequisite: Chemistry 5.

Textbooks—Cohen: Theoretical Organic Chemistry.

Fisher-Payne: 有機化學實驗教科書.

CHEMISTRY 9. **Organic Chemistry.** Laboratory preparation of some of the more complex organic compounds; a survey of those groups of compounds which have application in the industries; emphasis on dyes and dyestuffs. (4)

CHEMISTRY 10. **Applied Chemistry.** A study of the industries of Shantung, and the application of scientific methods to industry. Laboratory examination of fuels, oils, and commercial products; water analysis; analysis of ores. Reports, and visits to industrial plants. (4)

Prerequisites: Chemistry 5 and 8.

CHEMISTRY 11. **Physical Chemistry.** A study of theoretical principles and practice in the methods of physical chemistry; solutions; phase rule, thermo-chemistry, polarimetry, electro-chemistry, conductivity.

Prerequisites: Chemistry 7 and 8. (4)

CHEMISTRY 12. **Foods and Nutrition.** Study of the principles of nutrition and metabolism; food analysis; elements of bio-chemistry. (4)

Prerequisites: Chemistry 5 and 8.

Textbook—Sherman: Chemistry of Food and Nutrition.

CHINESE LITERATURE AND HISTORY

Chou Kan-T'ing, Associate Professor, Head of Department.
Chang Hsiao-Fan, Assistant Instructor.
Luan T'iao-Fu, Assistant Instructor.

1. CHINESE LITERATURE

CHINESE LITERATURE 1 and 2. **Study of Chinese Characters.** The course explains the transformation of the Chinese characters from ancient times until the present. Use will be made of Tuan and Wang's "Elementary Survey of Characters". (2, 2)

CHINESE LITERATURE 3 and 4. **Chinese Classics.** In these courses and Literature 7 and 8 the following classics will be studied:—"Shih Ching", "Shu Ching", "Chen Li", "Tso Chuan", "Kung Yang", and "Ku Liang". (4, 4)

CHINESE LITERATURE 5 and 6. **Ancient and Modern Poems.** Study will be made of such textbooks as "Collection of T'ao Yuan Ming's Poems", "Collection of Tu Kung Pu's Poems", "Collection of Pai Chu I's Poems", "Collection of Yuan Chih Chai's Poems", and also the writings of other more modern poets. (2, 2)

CHINESE LITERATURE 7 and 8. **Chinese Classics.** A continuation of the study of classics begun in courses 3 and 4. (4, 4)

CHINESE LITERATURE 9. **Ancient and Modern Ballads.** A study of "The Ballads of Sixty-one Poets", "Collection of Ballads about Flowers", and "Selections from Chang Hui Yen's Writings". (2)

CHINESE LITERATURE 10. **Study of Selected Dramas.** Four popular dramas will be studied:—"Hsi Hsiang Chi" (西廂記), "P'i Pa Chi" (琵琶記), "T'ao Hua Shan" (桃花扇), and "Ch'ang Sheng Tien" (長生殿). (2)

CHINESE LITERATURE 11 and 12. **History of Drama.** Discussion of the changes made in the various dynasties, and their relationship to literature. Textbook:—Wang Kuo Wei, "History of Drama in Sung and Yuan Dynasty". (2, 2)

CHINESE LITERTURE 21 and 22. **Story Writing.** Use will be made of the text by Liang Kung, of the Middle School of Southeastern University. (2, 2)

CHINESE LITERATURE 23. **Selected Stories.** (2)

CHINESE LITERATURE 24 and 25. **Journalism.** Use will be made of the text by Chin Chen Ch'ing "Practical Advanced Journalism". (2, 2)

CHINESE LITERATURE 26. **Practical Letter-writing.** Social letters, business letters, preparation of documents, etc. (2)

CHINESE LITERATURE 27 and 28. **History of Chinese Literature.** (4, 4)

CHINESE LITERATURE 29. **Chinese Official Documents.** Preparation of commands, orders, petitions, and other official letters to or from governmental offices.

CHINESE LITERATURE 31 and 32. **Chinese Philosophy.** Lectures, 新編墨子講義以及老莊荀列等等. (2, 2)

CHINESE LITERATURE 33 and 34. **Literature in Ch'ing Dynasty.** (2, 2)

2. CHINESE HISTORY

CHINESE HISTORY 1. **Ch'ing Dynasty.** Detailed study of the political, educational, industrial, literary, and military activities of China during the two hundred eighty years between the reign of Shun Chih and the reign of Hsuan T'ung. (2)

CHINESE HISTORY 2. **The Republic of China.** The underlying causes of the Revolution; the establishment of the Republic; the struggles taking place during and after the establishment of the Republic. (2)

EDUCATION

Li Tien-Lu, M. A., Ph. D., Professor, [redacted] Head of Department.
Harold Frederick Smith, B. A., M. A., Associate Professor.
Frederick Seguier Drake, B. A., B. D., Associate Professor.
Bettice Alston Garside, B. A., M. A., Associate Professor.

The courses in education are offered primarily to meet the needs of the high percentage of students planning to teach in middle schools. Courses 1 or 2, 5, 7, and one of courses 25 to 32, or 42 to 46, are required of all students in the Arts and Science Courses in fulfillment of the minor in education. Twenty-four semester hours of credit in education are required of candidates for a certificate as teacher in middle schools. These should include Education 1, 5, 6, 7, and 9. Courses leading to a certificate in administration and supervision are offered to advanced students in education; and courses leading to a certificate as teacher in elementary schools will be offered when there is a demand for them.

EDUCATION 1. **Introduction to Teaching.** A general orienting course required of all freshmen. The meaning of education, objectives, the social point of view, introduction to the learning process, the child, the teacher, types and levels of teaching, the school system. The course is given in Chinese. A reading knowledge of English is desirable but not required. Smith (3)

EDUCATION 2. **Introduction to Teaching.** A repetition in the second semester of Education 1. Not offered unless there is a definite demand. Smith (3)

EDUCATION 4. **School Hygiene.** Play and playgrounds; buildings; light; seating; heat; ventilation; sanitation; community hygiene; physical and mental habits; health clubs; physical defects; the hygiene of instruction. The course is given in Chinese. Smith (3)

EDUCATION 5. **Educational Psychology.** The learning process. This course attempts to analyze the fundamental conceptions and facts relative to the learning process and to show the significance of the various mental functions in acquiring changes in the human beings. Li (4)

EDUCATION 6. **Educational Psychology.** Psychology of learning. This course treats of the Laws of Learning, economy of learning, transference of training, influence of work upon efficiency, etc. Education 6 is a continuation of Education 5, but may be taken separately. The courses are given in Chinese, but a reading knowledge of English is desirable. Li (4)

EDUCATION 7. **Teaching in Middle Schools.** Introductory; development and scope. The students,—a brief study of their special characteristics and problems. The curriculum,—an investigation of the curricula now in use, a discussion of how and where they should be improved, and a study of how best to use them. Teaching methods,—a brief discussion of method in its application the middle school. Discipline,—a study of the ends sought, and of the best methods of attaining them. Extra-curricular-activities,—their part in school life, and the teacher's share in them. The course is given in English and Chinese. Garside (4)

EDUCATION 9. **Observation, Participation, and Practice Teaching.** The course consists of carefully graded and supervised observation of teaching, participation in the work of the class-room, and practice teaching, together with a study of the technique of teaching. Each student will meet daily with his supervisor for the discussion of his work. Open only to junior and senior students. The course is given in Chinese. Drake (4)

EDUCATION 10. **Practice Teaching.** A continuation of Education 9, in the following semester. Drake (4)

EDUCATION 11. **Child Psychology.** This course is designed to present the facts concerning the nature and development of the mind during childhood, especially with reference to the meaning of these facts to the teacher. (4)

EDUCATION 18. **Rural Community Problems.** A study of the religious, social, and economic conditions in rural life in China. See courses of School of Theology, Pastoral Theology, Course 4. Lo (3)

EDUCATION 19. **The Rural School.** Problems and methods; the leadership of the teacher; community life, national and provincial agencies to be relied upon. The course is given in Chinese, but a reading knowledge of English is desirable. Smith (3)

EDUCATION 24. **Educational Measurements.** The place of measurememt in education; classification and construction of tests; instructions for and application of tests; scoring; conserving results. A limited amount of practical work in the administration, scoring, and interpretation of tests will be required. Education 1, 5, 6, 7 are prerequisites for this course. Instruction is given in Chinese and English. Garside (4)

EDUCATION 25. **The Teaching of Science.** A history of the development of science and science teaching, its aims and practices; the scientific attitude; the influence of science on human progress; the psychology of science study; a review of subject matter; the construction of courses in General Science, Biology, Physics, and Chemistry,—their relation to each other and to other courses; laboratories, equipment and methods; characteristic difficulties; texts; literature, sources of materials. The course is given in English. It is offered in alternate years,—next offered in 1926-27.

Garside, with the assistance of members of the science departments (2)

EDUCATION 26. **The Teaching of History.** A brief survey of the development of school instruction in history, and appraisal of existing systems of history teaching; aims and values; principles and practices in constructing a course; difficulties and methods; the use of maps, charts, pictures, and source materials; texts and literature. The class is conducted in English and Chinese in alternate years,—the class in 1926-27 being conducted in Chinese. Heeren and Chang (2)

EDUCATION 27. **The Teaching of Chinese.** A review of the subject matter available and a study of various methods of teaching. The course is given in Chinese. It is offered in alternate years,—next being given in 1926-27. Chou (2)

EDUCATION 28. **The Teaching of Mathematics.** The meaning of the teaching of mathematics; a review of subject matter; mathematics as the foundation for science study; mathematics and daily life,—mental stimulation, accuracy of thought, stimulus to student initiative and independence, and an exposition of the teacher's part in securing these values. The aim of mathematics; subject matter; sequence of courses and topics and their limits; correlated mathematics compared with distinct courses in mathematics; methods in mental and written mathematics; methods in algebra, geometry, and trigonometry; theoretical and practical mathematical problems; short methods; graphs; practical applications; use of tables; use of mathematical instruments; collateral study; a history of mathematics. The course is given in Chinese. It is given in alternate years, being next given in 1925-26. Wang (3)

EDUCATION 29. **The Teaching of English.** The development of aims and practices in teaching English; the psychology and principles of language study; phonetics; a review of subject matter; characteristic difficulties of Chinese students; texts; tests; the construction of a course. The course is given in English. It is given in alternate years, next being given in 1925-26, Baker (3)

EDUCATION 30. **The Teaching of Geography.** In this course, in that geography is not taught separately in the University, it is necessary to give a certain amount of content as well as of method. Hence the course will have for its first aim the formation of the fundamental conceptions of physical, economic and human geography. The chief phenomena will be illustrated by detailed study of regions, and there will be an attempt to give the students practice in first-hand geography, by practical surveys in the home-region. Emphasis will be laid upon such practical work as mapping and recording of weather observations. The course will close with a discussion of the methods of teaching geography in primary and middle schools. Drake (5)

EDUCATION 33. **The Administration and Supervision of Middle Schools.** The course of study; the daily program; the opening days; registration; records,—student and financial; selection of text books; classification of students; persistence in school; discipline; improvement of instruction; teachers' meetings; classroom supervision; intellectual and moral tone of the school; extra-curricular duties,—athletics, the assembly hall, dormitories, social functions, relations to the community; standards; making the most of equipment and supplies. A reading knowledge of English is required. Garside (4)

EDUCATION 38. **The Principles of Education.** An integrating course bringing together the details of theory and practice, and leaving the student with a unified body of educational doctrine. The definition of education; objectives; the nature of subject matter; the individual and society; educational values; formal discipline; liberal and

vocational education. The course is given in English and Chinese. It is open to advanced students only. This course alternates with Education 40. It is given in 1925-26. Smith (4)

EDUCATION 40. **The History of Education.** A brief survey of education from the earliest times to the 18th century; education from the 18th century to the present; nationalism and democracy in education. The Chinese educational situation. Open only to advanced students. The course is given in Chinese. It alternates with Education 38,—being given next in 1926-27. Smith (4)

EDUCATION 42. **Principles of Religious Education.** A general view of the principles of Religious Education, covering the purpose and the psychological background. Based on Coe's "A Social Theory of Religious Education", and "Education in Religion and Morals". Lo (3)

EDUCATION 43. **The Psychology of Adolescence, as Related to Religious Life.** A study of the psychology of "the 'teen age" and its moral and religious problems, and of the best methods for guiding students during this critical period. (2)

EDUCATION 44. **Problems of Adolescent Girls.** Especially adapted to China. Education 43 is a prerequisite. Based in part on Moxcey's "Girlhood and Character", and "Leadership in Girls' Activities". Miner (2)

EDUCATION 45. **Religious Education in Middle Schools.** The course also deals with the religious education of adolescents in Sunday Schools and Week-day Church Schools. The topics include the aims of religious education in middle schools, subject matter or curriculum, and a study of methods not only for classroom work but also for expressional activities. Prerequisites, Education 42 and 43. Miner (2)

EDUCATION 46. **Religious Education in Middle Schools.** Continuation of Education 45. Definite subjects in the middle school curriculum of religious education, combining lectures with supervised teaching in a middle school, Sunday School, or Week-day Church School, and expressional activities or projects where the work of adolescents is shared by students taking this course. Miner (2)

ECONOMICS

(See Sociology)

ENGLISH

Dwight Condo Baker, B. L., M. A., Acting Head of Department.
Miss Emma Tucker, B. A., Ph. D., Instructor.
Mrs. Henry Payne, Lecturer.

The student on matriculation is presumed to have had at least six years of the elementary study of English in the middle schools. This should include written and oral expression, together with an introduction to some English and American literary classics. He should be able to use correctly an English vocabulary of approximately three thousand words. Advanced students presenting evidence of having completed courses 1 to 4 will be admitted to senior classes in English.

ENGLISH 1. **General Language Study.** Sentence construction, based on the University of Iowa Fundamental Vocabulary; review of grammar; oral and written expression; dictation; supplementary reading. (5)

ENGLISH 2. **General Language Study.** Continuation of English 1. (5)
Prerequisite: English 1.

ENGLISH 3. **Advanced Composition.** Second year oral and written English; specimens of short essays; notebook preparation; reports; inductive grammar and rhetoric; reading. (4)
Prerequisite: English 2.

ENGLISH 4. **Advanced Composition.** Continuation of second year English. (4)
Prerequisite: English 3.

ENGLISH 21. **Narrative Masterpieces.** Introduction to representative works of English and American authors; the short story, with special attention to its development during the nineteenth century; oral and silent reading; written reports and stories. (4)
Prerequisite: English 4.

ENGLISH 22. **Narrative Masterpieces.** Continuation of English 21. (4)
Prerequisite: English 21.

ENGLISH 23. **General Western Literature.** Directed reading of poetry; prose essays, with special attention to description and exposition; translation and interpretation exercises; biographical sketches; written criticisms. (4)
Prerequisite: English 4.

ENGLISH 24. **General Western Literature.** Continuation of English 23, with special attention to English versions of classical European literature. (4)
Prerequisite: English 23.

ENGLISH 31. **The English Novel.** Detailed study of one representative novel; for advanced students in literature. (2)
Prerequisite: English 24.

ENGLISH 32. **The Drama.** Detailed study of one of Shakespeare's plays for advanced students only. (2)
Prerequisite: English 31.

ENGLISH 33. **Forensics.** Theory and practice of argumentation; principles of elocution; extemporaneous speech; for advanced students only. (2)

ENGLISH 34. **Journalism.** Principles and practice in journalistic work; preparation of an English periodical. (2)

HISTORY AND POLITICAL SCIENCE

John J. Heeren, M.A., Ph.D., Professor, Head of Department.
Chang Li-Chih, Assistant.
Mrs. John J. Heeren, Lecturer.

1. HISTORY

HISTORY A. **Introduction to Western History.** This is an elementary course required of Sub-Freshmen. The work is based on "Introduction to Western History for Chinese Students" by MacNair and Atkinson. Some map work and reference reading will be required. Normally the class-room work will be conducted in Chinese, but if a sufficient number of students have the required proficiency in English, the class will be divided into two sections, one of which will do its work entirely in English. (4)

HISTORY 1. **History of Western Europe from 376 to 1648.** The aim of this course is to give the student the essentials of European history from the fall of the Western Empire to the end of the religious wars. Special emphasis is placed upon those movements and institutions which had an appreciable influence upon the modern world.
Prerequisite: Entrance History. (4)

HISTORY 2. **History of Modern Europe.** The history of Europe is traced from the end of the religious wars to the present day. Emphasis is placed upon the important social, industrial, religious and political movements and upon the changes that have shaped the Europe of to-day. Towards the end of the course special emphasis is placed upon the causes and issues of the Great War together with the resulting problems of reconstruction. Map work and reports are required. (4)
Prerequisite: History 1, or its equivalent.

HISTORY 3. **English History.** To give a general view of English history is the aim of this course. Besides tracing the outlines of political and constitutional development, it gives the student a brief survey of social and industrial evolution as well as of colonial expansion. (4)
Prerequisite: a working knowledge of the English language.

HISTORY 4. **United States History.** This is a general course in the history of the United States. After a brief outline of European beginnings the course aims to trace the main features of the social, economic, political and constitutional development. Reports and map work will be required. (4)
Prerequisite: History 3.

HISTORY 5. **History of the Ming and the Tsing Dynasties (1368-1840).** This course traces the main features of the educational, social and political development from the beginning of the Ming dynasty to the first Anglo-Chinese war. Special emphasis is placed upon the beginning of the intercourse with the Occident and the introduction of Christianity and Western science. Reports, map work and reference reading are required. (4)

HISTORY 6 or 7. **Current Events.** This is a course in current events, dealing especially with the events of the day in Egypt, India, the Philippine Islands, Siberia, Japan and China. The material will be gleaned from current Chinese and English periodicals and newspapers. (2)

HISTORY 8 or 9. **Historical Essays.** Students majoring in History will be given an opportunity in this course of writing in English on historical subjects. No student will be admitted to this course unless he can satisfy the instructor that he has done sufficient work in History and in English to be able to take the work with profit to himself. (2)

HISTORY 20. **Modern Chinese History from 1840 to the Return of Tsingtau.** This course aims to deal with the main currents of Chinese history since the Anglo-Chinese war. The emphasis will be on the religious, educational, industrial and political changes and development. Lectures, reports, reference work and map work consitute the main features of the course. (4)

HISTORY 21 or 22. **History of the Far East.** This is a general survey of the outstanding social, industrial and political changes in China, Siberia, Korea, the Philippine Islands, India and Japan from the time of the opening of Japan to the Washington Conference.. Reports, reference reading and map work are required of students taking this course. (4)

HISTORY 23 or 24. **World History from 1815 to 1924.** Beginning with the Industrial and the French Revolutions the student traces the efforts to suppress revolutionary tendencies, the old and the new colonial policies, the struggle against the fourth estate and the economic imperialism ending in the Great War. The latter part of the course treats somewhat in detail the problems of reconstruction and the various movements and organizations working for world federation. Open only to mature students who can read English readily. (4)

HISTORY 25. **Historical Seminar.** One hour a week will be spent in a detailed study of documentary source material in some field of Chinese history. The main aim is to acquaint advanced students with the methods of historical research. (2)

HISTORY 26. **The Teaching of History.** See Educational Courses.

HISTORY 27 and 28. **Essentials of Political and Economic Geography.** This course aims to give to the students of the department the essentials of political and economic geography so as to enable them to pursue their history courses with profit and efficiency. This is a two-hour course extending throughout the year, the autumn term dealing with the Eastern Hemisphere and the spring term with the Western Hemisphere. (2, 2)

2. POLITICAL SCIENCE

POLITICAL SCIENCE 1. **Introduction to Political Science.** The course deals with the origin and development of the state, the nature of the state, sovereignity, political theory and the structure and functions of government. (4)

Prerequisites: History 1 and 2.

POLITICAL SCIENCE 2. **Comparative Constitutional Government.** An attempt is made to compare the constitutional development of England, the United States, Switzerland, France and modern China. The aim is to train the student to compare critically the evolution and the value of China's constitution with those of the constitutions of the leading democracies. (4)

Prerequisites: History 1, 2, 3 and 4.

MATHEMATICS AND ASTRONOMY

Wang Hsi-En (S. C. U.) Professor, and Head of Department.
T'en Hsi-Ching (S. C. U.) Associate Professor.

1. ASTRONOMY

ASTRONOMY 7. **Descriptive Astronomy.** The earth; astronomical instruments and their adjustment; the orbit of the sun; the sun, the moon, tides, eclipses of the sun and moon; solar system, planets, meteors. (3)

ASTRONOMY 8. **Descriptive Astronomy.** Continuation of Astronomy 7. (3)

ASTRONOMY 23. **Mathematical Astronomy.** The use and correction of the equatorial instrument, transit, zenith telescope, sextant; calculation of right ascension, declination, latitude and the azimuth of a star, mean solar time, siderial time, latitude; use of the almanac; calculation of the eclipses of the sun and moon. (4)

ASTRONOMY 24. **Mathematical Astronomy.** Continuation of Astronomy 23. (4)

ASTRONOMY 28. **Meteorology.** (2)

2. MATHEMATICS

MATHEMATICS 1. **Plane Trigonometry.** Trigonometric functions, solution of right angles, analysis of a triangle. (4)

MATHEMATICS 3. **Advanced Algebra.** Ratio and proportion, variation, permutations and combinations, continued fractions, indeterminate equations, arithmetical series, geometrical series, logarithms, theory of equations, higher numerical equations. (4)

MATHEMATICS 5. **Analytical Geometry.** Loci and their equations, the straight line, circle, different systems of co-ordinates, parabola, ellipse, hyperbola, loci of the second order, higher plane curves, the point in space, the straight line in space, surfaces of revolution, and transformation of co-ordinates. (4)

MATHEMATICS 6. **Analytical Geometry.** Continuation of Mathematics 5. (4)

MATHEMATICS 10. **Surveying.** The use of the tape, compass, transit, and level; land surveying; leveling; triangulations; railroads; and river surveying. (3)

MATHEMATICS 12. **Spherical Trigonometry.** The right spherical triangles, and the application of spherical trigonometry. (3)

MATHEMATICS 20. **Differential Calculus.** Functions, differential coefficient, differentiation, successive differentiation, implicit functions, expansion of functions, indeterminate forms, partial differentiation, certain curves, direction of curves, tangent and normal, points of inflection, curvature, evolute and involute, osculation circle, envelopes, maxima and minima. (4)

MATHEMATICS 21. **Integral Calculus.** Elementary forms of integration, integration by substitution, integration by parts, integration by successive reduction, integration of the trigonometric functions, successive integration, application of integral calculus. (4)

MATHEMATICS 22. **Applied Calculus.** (2)

MATHEMATICS 25. **Mathematical Physics.** (3)

MATHEMATICS 26. **Mathematical Physics.** (3)

MATHEMATICS 27. **Mathematical Physics.** (2)

PHYSICS

Harkness, Harold Wilson, B A., B. S., Professor, Head of Department.
Wang Ping-Hsiao, (S. C. U.) Assistant Instructor.

In the courses as shown below the students will spend two periods of two hours each per week in the laboratory. One period of one hour per week is given to class instruction and discussion of laboratory work.

PHYSICS 1. **Mechanics.** Equilibrium of a particle and a rigid body; motion of a particle and a rigid body, work, energy, laws of impact, elasticity and S. H. M. (4)

PHYSICS 2. **Properties of Matter and Heat.** The gas laws, density of solids, liquids, gases and vapours, measurement of temperature, hygrometry, calorimetry, viscosity, change of state and radiation. (4)

PHYSICS 3. **Electricity and Magnetism.** Elementary discussion of the electro-magnetic field. Electric currents, P. D., resistance, temperature coeff. of resistance, capacity, e. m. f., electro-magnetic induction, electrolytic conduction, radio-activity, thermo-electromotive force, magnetic induction, thermionic emission, electric machines. (4)

PHYSICS 4. **Optics and Sound.** Elementary geometric optics covering the laws of reflection, refraction, and formation of images by lenses and mirrors with applications to optical instruments. Physical optics covering reflection, refraction, diffraction, polarization, dispersion and spectra and X-Rays, Sound. Wave motion, resonance and velocity of sound. (4)

More advanced courses will be arranged for Arts students provided the number of students majoring in Science justifies it.

Text and reference books for the above courses are as follows:

Mechanics Molecular Physics and Heat—Millikan.
Electricity Light and Sound—Millikan and Mills.
Practical Physics (Chinese or English)—Millikan and Gale.
Practical Physics—Watson.
Manual of Physical Measurements—Reed and Guthe.
General Physics for Colleges—Webster, Farwell and Drew.

POLITICAL SCIENCE

(See History)

PSYCHOLOGY

Li T'ien-Lu, M. A., Ph. D., Professor, Head of Department.
Li Li-Tsuen, Lecturer.

PSYCHOLOGY 1 and 2. **General Psychology.** This course is intended for beginning students. It treats of the main functions of the mind, such as as Sensation, Perception, Attention, Memory, Imagination, Thought, Feeling, and Will. Li (2, 2)

PSYCHOLOGY 3 and 4. **Educational Psychology.** See Education 5 and 6. Li (4, 4)

RELIGIOUS INSTRUCTION

Howell Portman Lair, S. T. M., D. D., Professor, Head of Department.
Members of the Faculty of the School of Theology.

Note. The courses listed below are given in the School of Arts and Science. Not all of the courses can be given in any one year, but students will have an opportunity to elect any course before completing the requirements for graduation. Other

courses in the School of Theology may also be elected by students in the School of Arts and Science on the approval of the Head of the Department and the Dean of the School of Theology. The members of the Theological Faculty also assist in the instruction in this Department.

RELIGIOUS INSTRUCTION 3 and 4. **Old Testament History.** Covering the historical sections of the Old Testament to the return from captivity, with introductions to the Prophets, and special attention given to the geography of Bible lands. Lectures, outlines, assigned readings, term papers. Two hours a week though the year. (2, 2)

RELIGIOUS INSTRUCTION 5 and 6. **Life of Christ.** A study of the life and character and work of Jesus, with special reference to contemporary history and interpretation of His teachings. Text book with reference work aand supplementary lectures. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 7 and 8. **Apostolic History.** A detailed study of the problems and conditions of the early church with application of the principles there found to present-day needs. Introduction to apostolic literature. Text book and lectures. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 21 and 22. **History of Religion.** A study of the origin and development of the great living religions, with special attention given to the sacred scriptures and the influence of the various religions on the practical life of the people. Lectures, assigned reading, topical reports, term papers. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 23 and 24. **Interpretation of the Bible.** An examination of the various types of scriptural passages which are difficult to harmonize with modern thought, and suggestions as to their use. Also a sketch of the historical development of some great teachings in the Bible. Lectures, assigned readings, topical reports, term papers. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 25 and 26. **Apologetics.** An examination of the fundamental facts and principles of the Christian religion, showing that the known facts of Christianity meet the needs of man's religious nature, and a review of the evidences for Christian belief. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 27 or 28. **Origin and Development of the Hebrew Religion.** A study of the growth of great religious ideas as illustrated in the history of the Hebrews. English text, with supplementary syllabus. Topical reports, term papers. Two hours a week for one semester. (2)

SOCIOLOGY, SOCIAL SERVICE, AND ECONOMICS

Albert G. Parker, Jr., A. B., B. D., Associate Professor, and Head of Department.
Wu, Gin-Ding David, (S. C. U.) Assistant Instructor.

Of the following courses those above 10 are not open to Freshmen; those above 20 are not open to Sophmores but are open to Juniors and Seniors and to Special Students who have done sufficient work in the earlier courses.

The students majoring in the department are required to take Courses 1 and 2, 11 and 12, and at least two from 21, 22, 29 and 30.

PHYSICS 1. **Mechanics.** Equilibrium of a particle and a rigid body, motion of a particle and a rigid body, work, energy, laws of impact, elasticity and S. H. M. (4)

PHYSICS 2. **Properties of Matter and Heat.** The gas laws, density of solids, liquids, gases and vapours, measurement of temperature, hygrometry, calorimetry, viscosity, change of state and radiation. (4)

PHYSICS 3. **Electricity and Magnetism.** Elementary discussion of the electro-magnetic field. Electric currents, P. D., resistance, temperature coeff. of resistance, capacity, c. m. f., electro-magnetic induction, electrolytic conduction, radio-activity, thermo-electromotive force, magnetic induction, thermionic emission, electric machines. (4)

PHYSICS 4. **Optics and Sound.** Elementary geometric optics covering the laws of reflection, refraction, and formation of images by lenses and mirrors with applications to optical instruments. Physical optics covering reflection, refraction, diffraction, polarization, dispersion and spectra and X-Rays, Sound. Wave motion, resonance and velocity of sound. (4)

More advanced courses will be arranged for Arts students provided the number of students majoring in Science justifies it.

Text and reference books for the above courses are as follows:

Mechanics Molecular Physics and Heat—Millikan.
Electricity Light and Sound—Millikan and Mills.
Practical Physics (Chinese or English)—Millikan and Gale.
Practical Physics—Watson.
Manual of Physical Measurements—Reed and Guthe.
General Physics for Colleges—Webster, Farwell and Drew.

POLITICAL SCIENCE

(See History)

PSYCHOLOGY

Li T'ien-Lu, M. A., Ph. D., Professor, Head of Department.
Li Li-Tsuen, Lecturer.

PSYCHOLOGY 1 and 2. **General Psychology.** This course is intended for beginning students. It treats of the main functions of the mind, such as as Sensation, Perception, Attention, Memory, Imagination, Thought, Feeling, and Will. Li (2, 2)

PSYCHOLOGY 3 and 4. **Educational Psychology.** See Education 5 and 6. Li (4, 4)

RELIGIOUS INSTRUCTION

Howell Portman Lair, S. T. M., D. D., Professor, Head of Department.
Members of the Faculty of the School of Theology.

Note. The courses listed below are given in the School of Arts and Science. Not all of the courses can be given in any one year, but students will have an opportunity to elect any course before completing the requirements for graduation. Other

courses in the School of Theology may also be elected by students in the School of Arts and Science on the approval of the Head of the Department and the Dean of the School of Theology. The members of the Theological Faculty also assist in the instruction in this Department.

RELIGIOUS INSTRUCTION 3 and 4. **Old Testament History.** Covering the historical sections of the Old Testament to the return from captivity, with introductions to the Prophets, and special attention given to the geography of Bible lands. Lectures, outlines, assigned readings, term papers. Two hours a week though the year. (2, 2)

RELIGIOUS INSTRUCTION 5 and 6. **Life of Christ.** A study of the life and character and work of Jesus, with special reference to contemporary history and interpretation of His teachings. Text book with reference work aand supplementary lectures. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 7 and 8. **Apostolic History.** A detailed study of the problems and conditions of the early church with application of the principles there found to present-day needs. Introduction to apostolic literature. Text book and lectures. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 21 and 22. **History of Religion.** A study of the origin and development of the great living religions, with special attention given to the sacred scriptures and the influence of the various religions on the practical life of the people. Lectures, assigned reading, topical reports, term papers. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 23 and 24. **Interpretation of the Bible.** An examination of the various types of scriptural passages which are difficult to harmonize with modern thought, and suggestions as to their use. Also a sketch of the historical development of some great teachings in the Bible. Lectures, assigned readings, topical reports, term papers. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 25 and 26. **Apologetics.** An examination of the fundamental facts and principles of the Christian religion, showing that the known facts of Christianity meet the needs of man's religious nature, and a review of the evidences for Christian belief. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 27 or 28. **Origin and Development of the Hebrew Religion.** A study of the growth of great religious ideas as illustrated in the history of the Hebrews. English text, with supplementary syllabus. Topical reports, term papers. Two hours a week for one semester. (2)

SOCIOLOGY, SOCIAL SERVICE, AND ECONOMICS

Albert G. Parker, Jr., A. B., B. D., Associate Professor, and Head of Department.
Wu, Gin-Ding David, (S. C. U.) Assistant Instructor.

Of the following courses those above 10 are not open to Freshmen; those above 20 are not open to Sophmores but are open to Juniors and Seniors and to Special Students who have done sufficient work in the earlier courses.

The students majoring in the department are required to take Courses 1 and 2, 11 and 12, and at least two from 21, 22, 29 and 30.

SOCIOLOGY 1 and 2. **Introduction to Sociology.** This course of two semesters is for Freshmen. The student should become acquainted with the important social problems of the modern world and should give special study to Chinese social problems. The text used is Dow's "Society and its Problems". Ellwood's text and reference reading is also required. The class discussion is in Chinese. (3, 3)

SOCIOLOGY 3. **Sociology and Modern Social Problems.** This course will be given in Chinese for special students and students of other departments who do not wish to study Sociology with an English textbook. Special emphasis is given to Chinese social problems. Ellwood's or some other available Chinese text is used with reference readings. This course is offered once in two years. (3)

SOCIOLOGY 5. **Introduction to Economics.** The purpose of this course is to state simply the chief principles of the study of economics and to give some acquaintance with the economic problems of China. It is given in Chinese for students of the department who may wish to take it before courses 11 and 12 and for special students or students of other departments. This course is offered once in two years. (3)

SOCIOLOGY 7. **The Chinese Family.** This course deals with the teaching of the Classics concerning the family, the special characteristics of the Chinese family, a historical sketch of the Chinese family, the evolution of Chinese marriage, and the modern problems of the Chinese family. The reference reading is chiefly in Chinese. This course is offered once in two years. (1)

SOCIOLOGY 9. **The Modern City.** The students are required to visit a number of the institutions of Tsinan and special emphasis is given to the social problems of this city. A written report of investigation is required. The reference reading is chiefly in English. This course is offered once in two years. (2)

SOCIOLOGY 10. **Economic Ways of Getting a Living.** The purpose of this course is to give students some knowledge of the many kinds of employment and professions which are necessary in the modern industrial world together with a view of the specialized training which is necessary for each form of work. The class discussion and references are in English. This course is offered once in two years. (1)

SOCIOLOGY 11 and 12. **Principles of National Economy.** The purpose of this course is to acquaint the students with the principles upon which national prosperity is based. Special emphasis is given to the important economic problems of China. Carver's text is used. This course, which runs throughout the year, is for sophomores in the department and for others who have had Courses 1 and 2 or 3 or 5. (3, 3)

SOCIOLOGY 14. **Social Evolution.** This course deals with the factors of organic evolution and their effect on the human race, and with the special factors at work in social evolution. Tsai Ho Shen's "Social Evolution" is used with other reference reading in English and Chinese. This course is given once in two years and alternates with Course 21. (2)

SOCIOLOGY 15. **The Family.** This course deals with the origin, development, forms, functions and modern problems of the family. The references are in English and Chinese. This course is offered once in two years. (2)

SOCIOLOGY 17. **Modern Industrial Problems.** The purpose of this course is to acquaint the students with the growth of industrial life and the problems which arise from it. English and Chinese reference reading is used. This course is offered once in two years. (1)

SOCIOLOGY 20. **Social Psychology.** This course deals with instincts, the relative effects of heredity and environment in man's development, the social processes between individuals in society, social control, social attitudes, sentiments etc. Ellwood's and McDougall's texts in Chinese are used and the class discussion is in Chinese. This course is offered once in two years and alternates with Course 22. (3)

SOCIOLOGY 21. **Social Evolution.** The purpose of this course is the same as that of 14. In this course Chapin's textbook with reference reading is used. The class discussion is in English. This course is offered once in two years and alternates with Course 14. (2)

SOCIOLOGY 22. **Social Psychology.** This course is the same as 20 with the exception that the class discussion is in English. (3)

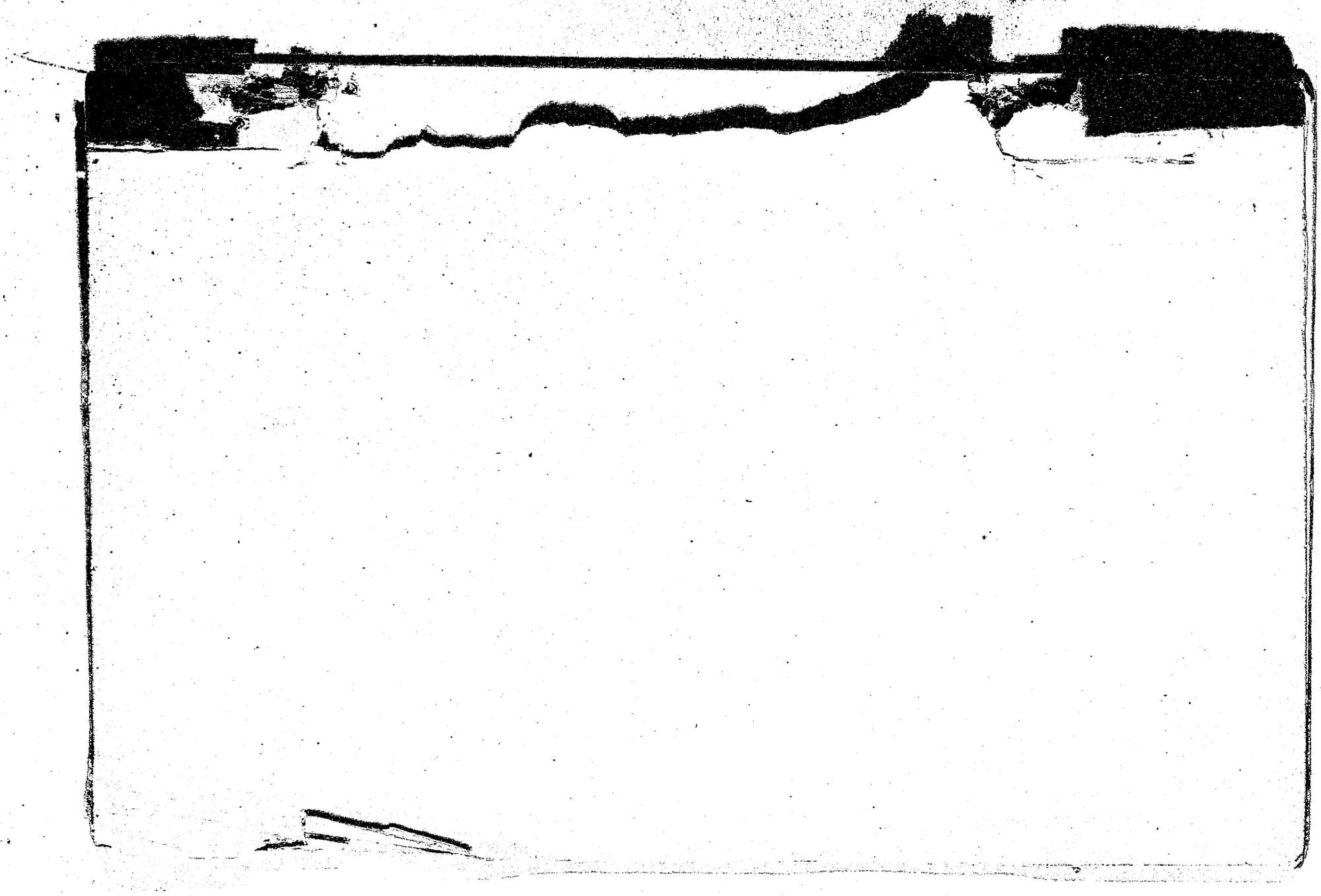
SOCIOLOGY 23. **Racial Problems.** The purpose of this course is to study the meaning of race and the points wherein races are distinguished and separated. It seeks a solution based on scientific considerations for the pressing problems of race relations. Classwork and reading are in English. This course is offered once in two years. (1)

SOCIOLOGY 24. **Readings in Social Leadership.** The material for this course is found in biographies. The purpose is to learn what influences have affected the lives of distinguished men and how the men in turn have influenced society. The work is in English. This course will be offered once in two years. (1)

SOCIOLOGY 25. **Social Science and the Bible.** The purpose of this course is to show how the Bible may be interpreted in the light of the principles and facts of social science, It is pointed out that the principles of Christianity are necessary fundamentals of a sound social order. This course is offered once in two years. (1)

SOCIOLOGY 29. **Social Origins.** The purpose of this course is to train students to find, read and apply to modern life the truth about the origin of the different institutions of society. The chief source of material is Thomas' "Source Book of Social Origins". The work is in English. This course is offered once in two years. (2)

SOCIOLOGY 30. **Principles of Sociology.** The purpose of this course is to discuss principles rather than problems. The leading textbooks of Sociology constitute the source of material. This course is offered once in two years. (3)





SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

Bulletin of

General Information

1925

University Bulletins — No. 47

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SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

Bulletin of

General Information

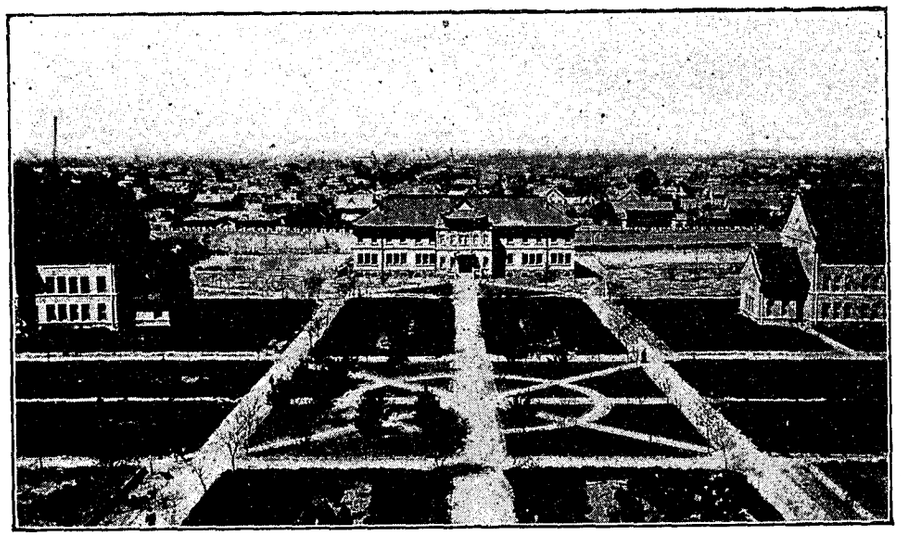
1925

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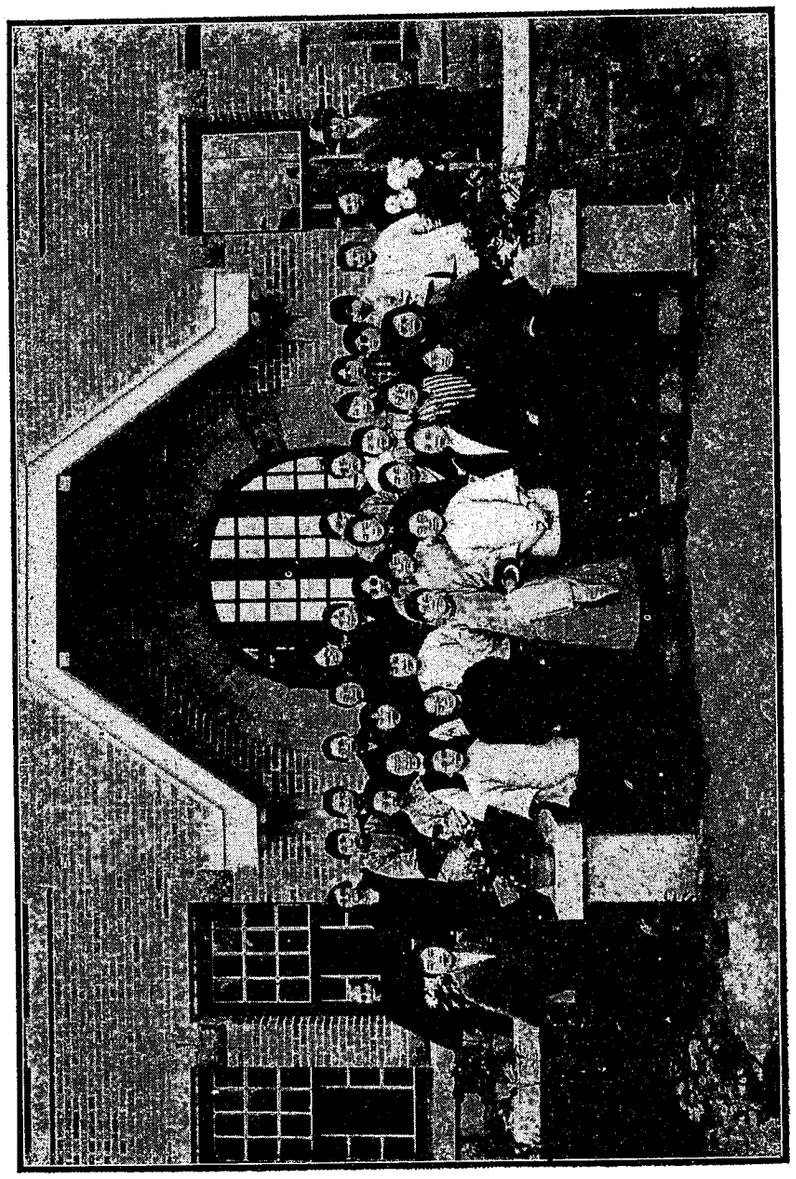
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THE ALUMNI GATE



VIEW OF CAMPUS



WOMEN STUDENTS AND MEMBERS OF STAFF

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THE UNIVERSITY CALENDAR

1925, 1926.

1925

February 5th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 6th, Friday	Recitations begin.
April 4th, 5th, 6th, Saturday, Sunday, Monday	Tsing Ming Holidays.
April 10th	Good Friday.
April 24th, 25th	North China Field Meet.
May 9th, Saturday	National Humiliation Day.
June 6th, Saturday	Last day for receiving applications for Entrance Examinations.
June 11th, Thursday	Spring Semester closes, Commencement Exercises 10 a.m.
July 1st Wednesday	Summer School begins.
July 6th, 7th, 8th	Entrance Examinations.
July 29th, Wednesday	Summer School closes.
September 17th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.
September 21st, Monday	Confucius' Birthday.
October 9th, 10th	National Holidays. Inter-Middle-School Track and Field Meet.
December 24th, 25th, 26th	Christmas Holidays.

1926

January 1st, Friday	New Year's Holiday.
January 28th, Thursday	Fall Semester closes.
February 13th, Saturday	Chinese New Year.
February 18th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 19th, Friday	Recitations begin.
April 2nd	Good Friday.
April 4th, 5th, 6th, Sunday, Monday, Tuesday	Tsing Ming Holidays.
April 24th, Saturday	Field Day.
May 9th, Sunday	National Humiliation Day.
June 5th, Saturday	Last day for receiving applications for Entrance Examinations.
June 16th, Wednesday	Spring Semester closes, Commencement Exercises 10 a.m.
July 5th, 6th, 7th	Entrance Examinations.
September 16th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.

CHARTER AND INCORPORATION

An Act to incorporate Shantung Christian University, as passed by the Dominion Parliment of Canada, and assented to by His Majesty George V, July 19th, 1924.

Preamble.

WHEREAS the University known as "Shantung Christian University" has heretofore been operated by and under the control of the following Christian missionary bodies amongst others, namely:—

The Board of Foreign Missions of the Presbyterian Church in Canada;

The Board of Foreign Missions of the Presbyterian Church in the United States of America;

The Board of Foreign Missions of the Presbyterian Church in the United States;

The Women's Foreign Missionary Society of the Methodist Episcopal Church;

all co-operating through the North American Joint Board of Shantung Christian University; and—

The Baptist Missionary Society;

The Society for the Propagation of the Gospel in Foreign Parts;

The London Missionary Society;

The Wesleyan Methodist Missionary Society;

The Wesleyan Methodist Missionary Society, Woman's Auxiliary;

The Foreign Missions Committee of the Presbyterian Church;

all co-operating through the British Joint Board of Shantung Christian University:

And whereas the persons hereinafter named purpose to maintain in Tsinan, or elsewhere in China, the said Shantung

Christian University as a University founded and conducted on Christian but not sectarian principles:

And whereas the said persons with the consent of the aforementioned bodies have by their petition prayed that it be enacted as hereinafter set forth, and it is expedient to grant the prayer of the said petition: Therefore His Majesty by and with the consent of the Senate and House of Commons of Canada, enacts as follows:—

Incorporation.

1. The Reverend Alfred Gandier, LL.D., chairman of the Board of Missions of the Presbyterian Church in Canada, clergyman, the Reverend Robert P. MacKay, D.D., secretary of the Board of Missions of the Presbyterian Church in Canada, clergyman, the Reverend Allan E. Armstrong, secretary of the Board of Missions of the Presbyterian Church in Canada, clergyman, the Reverend John D. MacRae, dean of the Faculty of Theology of Shantung Christian University, clergyman, and Edward Warner Wright, solicitor, all domiciled in the province of Ontario and resident in the city of Toronto, together with the persons who may hereafter be members of the board of governors, are hereby incorporated under the name of "Shantung Christian University", hereinafter called "the University".

Corporate name.

Authority for University in China.

2. The University may, in so far as authority from the Parliament of Canada is requisite for such purposes, establish, maintain and carry on a university within the Republic of China in accordance with this Act.

Acquisition of assets of other such Universities.

3. The University may acquire the whole or any part of the rights and property of any university now carrying on or authorized to carry on the work of a university in the Republic of China.

Provisional board of governors.

4. The persons named in section one of this Act, or a majority of them, shall be the provisional board of governors of the University, and shall hold office as such until replaced by the permanent board of governors duly appointed in their stead.

Organization meeting.

5. The provisional board of governors shall within one year of the passing of this Act, call a meeting at such time and place as they may deem proper, of representatives of the bodies

hereinbefore mentioned, and of such other bodies or organizations as they may deem advisable, by sending to the secretaries for the time being of such bodies or organizations, including the said two joint boards, such notice as the provisional board of governors may consider sufficient for the purpose, for the election and organization of the board of governors hereinafter referred to, and for the transaction of such further and other business as may be mentioned in the notice calling the meeting. The basis of representation at such meeting shall be that on the already existing North American and British Joint Boards of the University.

Notice.

Representation.

6. The head office of the University shall be in the city of Toronto in the province of Ontario, but the University may establish an office or offices and keep its books and records, and hold its meetings, or the meetings of any of its boards or committees, at any place or places which may be deemed convenient.

Head office.

Board of Governors.

7. (1) There shall be a board of governors, chiefly representative of the co-operative missionary organizations, hereinafter called "the Board", chosen in such manner and number from time to time as may be determined by the by-laws.

Powers of Board.

(2) The Board may elect appropriate officers and consitute appropriate committees, may adopt a corporate seal for the University, and may from time to time enact by-laws and repeal or amend the same, and unless and until other or different provisions are made by the Board by by-law:—

Government.

(a) The government, conduct, management and control of the University and of the property, revenues, business and affairs thereof shall be exercised by the Board;

Property.

(b) The property acquired by the University may be re-invested as the Board may provide, but subject to the terms of the trusts affecting such property;

Endowments.

(c) Any person may, subject to the approval of the Board, endow a chair or found a scholarship;

Lands.

(d) The Board shall have power to purchase, receive, accept, expropriate and acquire and hold all lands

and other property given to or acquired for the University;

Audit. (*e*) The accounts of the Board shall be audited at least once a year;

Quorum. (*f*) The Board may fix the number necessary to constitute a quorum, and may provide for representation of the members thereof by alternates or by proxy;

Proxies.

Subdivisions of Board. (*g*) The Board may, if deemed advisable, be subdivided, by by-law into a North American Section and a British Section, and all acts done concurrently by both sections shall have the same force and effect as if done at a meeting of the whole Board.

Annual general meeting. 8. There shall be held annually a general meeting of the Board, the place and time of each such meeting to be determined by the Board. At every annual general meeting a full statement of the affairs of the University shall be presented.

Field Board of Managers in China. 9. There shall be in China a Field Board of Managers of the University, the members of which shall be from time to time appointed and elected as the Board may by by-law from time to time authorize. The Field Board of Managers shall have the duties and powers from time to time authorized by the Board by by-law.

Granting degrees. 10. The University may, subject to such regulations as the Board may by by-law enact, grant such credentials and degrees, including honorary degrees, as are in accordance with the laws of China.

Affiliation. 11. The University may affiliate with other colleges or universities.

Real and personal property. 12. The University may take, hold, possess or acquire by purchase, lease, exchange, donation, devise, bequest, endowment, or otherwise, such real and personal property as may be necessary or requisite for carrying out its purposes and objects: and may sell, mortgage, pledge, hypothecate or alienate such property in any manner whatever.

Borrowing powers. 13. (1) If authorized by by-law, sanctioned by the vote of not less than two-thirds of the members present at any meeting of the Board duly called for considering the by-law,

the Board may, from time to time, as and when required for the objects of the University:—

(*a*) borrow money upon the credit of the University;

(*b*) limit or increase the amount to be borrowed;

(*c*) make, accept, draw, endorse and execute bills of exchange, promissory notes and other negotiable instruments;

(*d*) invest the funds of the University in such manner and upon such securities as are determined by the by-law.

Limitation. (2) Nothing in this section shall be construed to authorize the Board to issue any note or bill payble to bearer thereof, or any promissory note intended to be circulated as money or as the note or bill of a bank, or to engage in the business of banking or insurance.

BOARDS OF ADMINISTRATION

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John H. Finley, LL. D., L. H. D.
Principal Alfred Gandier, D. D., LL. D.
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Rev. R. P. MacKay, D. D.
President John H. J. Main, Ph. D., LL. D.
Seth Millikin, M. D.
J. Lovell Murray, Ph. D.
Mrs. Charles Roys
Egbert W. Smith, M. D.

FIELD BOARD OF MANAGERS IN CHINA

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DR. FONG F. SEC., Shanghai, *Vice-Chairman.*
REV. PAUL R. ABBOTT, Chefoo.
HAROLD BALME, F. R. C. S., President, Shantung Christian University.
DR. L. NELSON BELL, Tsingkiangpu, Ku.
REV. BISHOP L. J. BIRNEY, Shanghai.
REV. A. G. CASTLETON, Choutsun.
DR. CHANG PO-LING. Tientsin.
REV. CHENG CHING-YI, D. D. Shanghai.
MISS KATHERINE FRANKLIN, Sianfu, Shensi.
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REV. N. A. LARSEN, Kikungshan.
P. K. LIANG, Tientsin.
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DR. J. W. MOORE, Soochow.
DR. LOIS PENDLETON, Tehchow.
DR. J. WONG QUINCEY, Peking.
MISS MARY SCOTT, Peking (Alternate, Dr. Clemintina Bash, Peking).
REV. C. G. SPARHAM, Shanghai.
SUNG HUI-WU, Tsinan.
REV. T. N. THOMPSON, Ichowfu.
REV. E. W. WALLACE, D. D., Shanghai.
Y. H. WANG, Tehchow.
REV. R. C. WELLS, Weihsien.

THE UNIVERSITY SENATE

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LYMAN VAN LAW CADY.
SAMUEL COCHRAN.
PHILIP SAFFERY EVANS.
JOSEPH WALTER HUNTER.
PETER CHING KIANG.
HOWELL PORTMAN LAIR.
TIEN-LU LI.
SHIH-CH'I LO.
ROBERT STEWART MCHARDY.
JOHN DONALD MACRAE.
LUELLA MINER.
ANNIE V. SCOTT.
CHI-CHEI WANG.
EDWIN ROBERT WHEELER.
JOHN SUTHERLAND WHITEWRIGHT.

THE UNIVERSITY STAFF

(A) OFFICERS OF ADMINISTRATION

HAROLD BALME, 巴慕德 F. R. C. S., D. P. H.

President.

Kings College and Hospital, University of London, 1898-1903; F. R. C. S., 1905; D. P. H., 1912. Medical Missionary, English Baptist Mission, 1906—. Taiyuanfu, Shansi, 1906-11; Professor of Surgery and Superintendent of University Hospital, 1913-19; Dean of the School of Medicine, 1919-21; President of the University, 1921—.

JOHN DONALD MACRAE, 瑞思培, B. A., B. D.

Acting President
Dean of the School of Theology.

B. A., University of Manitoba, 1904; B. D., 1913; Knox College, Toronto, 1905-07; United Free Church College, Glasgow, 1907-08; University of Marburg, 1908. Missionary, Canadian Presbyterian Mission, 1909—. Honan, 1909-19; Professor of New Testament Exegesis and Literature, 1919—; Dean of the School of Theology, 1920—; Acting President of the University, 1925.

SAMUEL COCHRAN, 柯德仁, A. B., M. D.

Dean of the School of Medicine.

A. B., Princeton, 1893; M. D., Columbia, 1896. Missionary, American Presbyterian Mission, North, 1899—. Hwai Yuan, 1899-1921; Professor of Bacteriology, 1921—; Dean of the School of Medicine, 1922—.

LI T'IEN-LU, 李天祿, A. B., M. A., PH. D.

Dean of the School of Arts and Science.

A. B., Peking University (Methodist), 1908; M. A., Vanderbilt, 1914; Ph. D., 1916. Member of Conference of North China Methodist Episcopal Mission, Ordained Deacon, 1919; Ordained Elder, 1920. Dean of Peking Academy, 1919-22; President of Peking Academy, 1922-3; Professor of Education, 1924—; Head of Department of Education, 1923—; Dean of the School of Arts and Science, 1923—.

S. LUELLA MINER, 麥美德, B. A., M. A., LITT. D.

Acting Dean of Women.

B. A., Oberlin, 1884; M. A., 1897; Litt. D., 1914. Missionary, American Board, 1887—. Lu-ho Academy and North China Union College, Tungchow, 1888-1902; Principal Bridgman Academy, 1904-13; President of North China Union Women's College, 1905-20; Dean of Yenching College, 1920-22; Professor of Religious Education, 1923—; Acting Dean of Women, 1923—.

Lyman Van Law Cady, 孌德義, B. A., B. D.

Acting Dean of the School of Theology.

B. A., Grinnell College, 1910; B. D., Oberlin Theological Seminary, 1916; Missionary Fellowship at Union Theological Seminary, 1922-23. Instructor in English, Anatolia College, Turkey, 1910-13; Missionary, A. B. C. F. M., 1916—. Tehchow, 1916-20; Associate Professor of Theology, 1920—; Acting Dean of the School of Theology, 1923—.

John Sutherland Whitewright, 懷恩光.

Director of the Extension Departmeut.

Graduate of Bristol Baptist College, 1881. Missionary of English Baptist Mission, Shantung, 1881—. First Principal of Gotch—Robinson Theological School; Founder and Director of the Tsinan Institute and Museum, 1904—.

Edwin Robert Wheeler, 惠義路, M. B., B. S., F. R. C. S.

Superintendent of the University Hospital.

Kings College and Hospital, University of London, 1898-1903; M. R. C. S., L. R. C. P., 1903; M. B., B. S., (Lond.) 1905; F. R. C. S. (Eng.) 1923. Captain, R. A. M. C., 1918-1919. Medical Missionary, E. B. M., 1917—. Surgeon to P. U. M. C. and Hospital, 1907-16; Professor of Surgery, School of Medicine, 1917—; Superintendent of Hospital, 1921—.

Margaret Logan, 羅根.

Superintendent of the Nurses' Training School.

Graduate, Royal Infirmary, Glasgow, 1908; Ward Sister, Royal Infirmary, 1908-9. Missionary, B. M. S., Shantung, 1910—. Nursing Superintendent, University Hospital, 1913—.

Joseph Walter Hunter, 胡約瑟.

Registrar and Acting Treasurer.

Graduate of Saint Augustine's College, Canterbury. Missionary, Church of England Mission, 1904—. Taian, 1905-13; Teacher of History in School of Arts and Science, 1913-18; Associate Professor, 1920—; Acting Dean, Arts and Science, 1921-22; Acting Registrar, 1920-22; Registrar, 1922—; Acting Treasurer, 1923—.

Harold Frederick Smith, 明顯文, A. B., A. M.

Director of Admissions.

A. B., Stanford University, 1907; A. M., Columbia University, 1908. Missionary, A. P. M. N., 1910—. Chefoo, 1910-22; Associate Professor of Education, 1923—; Director of Admissions, 1924—; Director of Summer School for 1925.

Hsieh Lin-Chang, 謝麟章.

Assistant Registrar

Graduate, Temple Hill English School, Chefoo, 1916. Assistant to Treasurer and Registrar, 1917-22; Assistant Registrar, 1922—.

Han Chung-Hsin, 韓仲信, D. T. M. and H.

University Health Officer.

Graduate, Shantung Christian University Medical School, 1919; House Physician, P. U. M. C., 1919-21; Diploma in Hygiene, Cambridge, 1922; D. T. M. and H., London School of Tropical Medicine, 1923; Fellow of the International Health Board, Rockefeller Foundation, 1923. Instructor in Preventive Medicine, 1923—; University Health Officer, 1924—.

John Chih-Pei Kwei, 桂質柏, B. A.

Librarian.

B. A., Boone University, 1922; Graduate Boone Library School, Wuchang, 1922. Assistant Librarian, P. U. M. C., 1922-3. Assistant Librarian, 1923-4; Librarian, 1924—.

(B) TEACHING STAFF

Adolph, William Henry, 寶維廉, A. B., Ph. D.

Professor, and Head of the Department of Chemistry.

A. B., University of Pennsylvania, 1912; Ph., D., 1915. Assistant in Chemistry, and Assistant in Physics, University of Pennsylvania, 1911-14; Instructor in Chemistry, University of Illinois, 1920-21. Missionary, A. P. M. N., 1915—. Instructor in Chemistry, 1915-17; Associate Professor of Chemistry, 1917-22; Head of Department of Chemistry, 1917—; Professor of Chemistry, 1922—.

Baker, Dwight Condo, 貝克爾, B. L., M. A.

Acting Head of the Department of English.

B. L., University of California, 1914; M. A., 1915. Instructor, Y. M. C. A., San Francisco, 1914-15; Instructor, Y. M. C. A., Tientsin, 1915-17; Student Work, Y. M. C. A, Peking, 1917-18; Y. M. C. A. Work in Franco-Chinese Labor Corps, 1918-19. Missionary, Methodist Episcopal Board, 1920—. Taian, 1920-24; English Department, 1924—; Acting Head of English Department, 1925—.

Braafladt, Louis Henry, 寶福德, A. B., M. Sc., M. D. Ph. D.

Professor, and Head of Department of Pathology.

A. B., Luther College, 1906; Cand. Theol., Luther Seminary, 1909; Leipsic Univ., 1911; M. Sc., University of Chicago, 1915; Ph. D., 1923; M. D., Rush Medical College, 1916. Assistant Pathologist, Cook County Hospital, 1915-16; Instructor in Pathology, Johns Hopkins University, 1921-22. Missionary, L. U. M., 1916—. Associate Professor of Pathology, 1918-24; Professor of Pathology, and Head of Department of Pathology, 1924—.

BURT, ERNEST WHITBY, 白向義, B. A. M. A.

Professor of Theology.

Bristol Baptist College, and Balliol College, Oxford, 1885-92; B. A., London, 1888; M. A., Oriental Honour School, Oxford, 1892. Missionary, B. M. S., 1892—. Tsingchowfu, 1892-1904; Teacher in Schools of Arts and Theology, 1904-16; Professor of Theology, 1919—; Dean of School of Theology, 1916-20; Acting President, 1921-22.

BUTLER, DAVID CAMPBELL, 卜, A.B. A.M. TH.B.

School of Arts and Science.

A. B., Austin College, Texas, 1918; A. M., Princeton University, 1922; Th. B., Princeton Theological Seminary, 1922; University of Edinburgh, 1922-23. Instructor, Texas Military College, 1918-19; Student Pastor, Texas A. and M. School, 1923-24. Missionary, A.P.M.N., 1924—. School of Arts and Science, 1924—.

CADY, LYMAN VAN LAW, 夔德義, B. A. B. D.

Acting Dean of the School of Theology, and Associate Professor of Theology.

(See under Heading of Officers of Administration.)

*CHANG CHI-HSIEN, 張繼先, (S. C. U.)

Assistant Instructor in Bacteriology.

Graduate of the School of Medicine, 1920; Interne, 1920-21; Resident Physician, 1921-22; Assistant Instructor in Bacteriology, 1922—.

CHANG HSIAO-FAN, 張小藩, 廉生.

Assistant Instructor in Chinese.

Lin Sheng. (Chinese degree), 1904; Graduate of Provincial Normal School, Tsinan, 1906; Assistant Instructor in Chinese in School of Arts and Science, 1920—.

CHANG LI-CHIH, 張立志, (S. C. U.)

Assistant Instructor in History.

Graduate of the School of Arts and Science, 1923. Assistant Instructor in the Department of History, 1923—.

CHANG MO-SHENG, 張默生.

Assistant Instructor in Chinese Literature.

Graduate of the Peking Normal University, 1921. Assistant Instructor in Chinese Literature and Philosophy, 1925—.

**In the spelling of names of Chinese members of the staff, the Wade system of romanization is used except in cases where individuals prefer some different spelling.*

CH'IN YAO-T'ING, 秦耀庭, (S. C. U.)

Associate Professor of Biology.

Graduate of School of Arts and Science, 1914; Teacher of Biology in School of Arts and Science, 1914-19; Associate Professor, 1919—.

CHOU KAN-T'ING, 周幹庭, 拔貢.

Associate Professor, and Head of the Department of Chinese.

Pa Kung (Chinese degree), 1897; Graduate of Hung Wen College, Japan, 1903. Associate Professor and Head of Department of Chinese, 1920—.

COCHRAN, SAMUEL, 柯德仁, B. A., M. D.

Professor of Bacteriology, and Dean of the School of Medicine.

(See under Heading of Officers of Administration.)

DRAKE, FREDERICK SEGUIER, 林森, B. A., B. D.

Associate Professor of Education, and Organizing Director of the University Middle School.

Regents Park College, University of London, 1909-14; B. A., London, 1912; B. D. 1914; Teacher's Diploma, 1923; Geography Diploma, 1924. Missionary, B. M. S. Shantung, 1915—. Peichen, 1915-18; in France with Chinese Labor Corps, 1918-19; Tsingchowfu, 1919-22; School of Arts and Science, 1922—; Associate Professor in Department of Education, 1924—; Organizing Director of University Middle School, 1924—.

DZANG HUEI-CHUAN, 臧惠泉, (S. C. U.)

Instructor in the Department of Chemistry.

Graduate of the School of Arts and Science, 1916; Assistant Instructor in Chemistry, 1919-20; Instructor in Chemistry, 1920—.

ELLIS, JOHN STANLEY, 艾禮士, M. A., M. R. C. S., L. R. C. P.

Associate Professor, and Head of the Department of Radiology and Electro-Therapeutics.

Trinity College, Cambridge, and Guys Hospital, London; M. R. C. S., L. R. C. P., M. A., Cambridge; Radiographer to Guys and Royal Naval Hospitals and to East London Hospital for Children. Missionary, W. M. M. S., 1919—. Associate Professor, and Head of the Department of Radioiogy and Electro-Therapeutics, 1921—.

EVANS, DAVID JOHN, 范大衛, M. B., CH. B.

Instructor in Otolaryngology and General Surgery.

University of Birmingham Medical School; M. B., Ch. B., Birmingham. War Service, 1914-18. Missionary, B. M. S., 1922—. Sianfu, Shensi, 1923—; Instructor in Otolaryngology and General Surgery, 1924—.

Evans, Philip Saffery Jr., 易文士, A. B., M. D.

Professor, and Head of the Department of Physiology.

A. B., Yale; M. D., Johns Hopkins; Assistant in Physiology, Johns Hopkins, 1917-8. Missionary, American Southern Baptist Mission, 1901—. Yangchow, 1901-12; University of Nanking, Department of Medicine, 1912-17; Professor of Physiology, 1918—.

Garside, Bettice Alston, 葛思德, A. B., A. M.

Associate Professor of Education.

A. B., University of Oklahoma, 1913; Hartford Seminary Foundation, 1916-17; A. M., Columbia University, 1922. Superintendent of Public Schools, 1913-16, 1920-21; War Service, 1917-19. Missionary, A. P. M. N., 1922—. Weihsien, 1923; Associate Professor of Education, 1924—.

Han Chung-Hsin, 韓仲信, D. T. M. and H.

University Health Officer, and Instructor in Preventive Medicine.

(See under Heading of Officers of Administration.)

Harkness, Harold Wilson, 夏景文, B. A., B. Sc., A. M. E. I. C.

Professor, and Head of the Department of Physics.

B. Sc. (Honors) in Engineering, Queens University, Kingston, 1913; B. A., 1915. Douglas Tutor in Mathematics, Faculty of Applied Science, Queens University, 1913; Assistant Municipal Engineer, Cornwall, 1913-15; Missionary, A. P. M. N., 1915-20; C.P.M., 1920—. Associate Professor, 1916-23; Professor, 1923—; Head of Department of Physics, 1916—.

Harrisson, Stanley Clifford, 覃瑞勳, B. D.

Associate Professor of Theology and New Testament.

London University;—(a) University College, (b) Birkbeck College, (c) Regents Park College; B. D., London, 1915. Missionary, E. B. M., 1916—. Taiyuanfu, Shansi, 1916-23; Associate Professor of Theology and New Testament, 1924—.

Heath, Frances J., 希麗華, A. B., M. D.

Professor, Head of the Department of Obstetrics and Gynaecology, and Acting Assistant Dean of Women.

A. B., Temple University, 1906; M. D., Women's Medical College of Penn., 1912; Harvard Medical Postgraduate, 1919-21. Missionary, W. F. M. S. of the M. E. Church N., 1913—. North China Union Medical College for Women, Peking, 1913-23; Professor, Head of the Department of Obstetrics and Gynaecology, and Acting Assistant Dean of Women, 1924—.

Heeren, John J., 奚爾恩, B. A., B. D., M. A., Ph. D.

Professor, and Head of the Department of History and Political Science.

B. A., Grinnell College. 1905; M. A., University of Chicago, 1908; Ph. D., University of Hall-Wittenberg, 1910; B. D., McCormick Theological Seminary, 1912. Missionary, A. P. M. N., 1911—. School of Arts and Science, 1911; Professor, and Head of the Department of History and Political Science, 1919—.

Heeren, Edith Weeks (Mrs. John J.), 奚魏恩照.

Lecturer in Department of History.

University College, Reading, England; Women's Missionary College, Edinburgh; Teacher's Certificate, England, 1902; Teaching Work in England until 1907. Missionary, E. B. M., 1907-12; A. P. M. N., 1912—. Tsingchowfu, 1907-12; Weihsien, 1912-17; Teacher of English in Arts and Science College; Lecturer in Department of History, 1924—.

Heimburger, Leroy Francis, 海貝殖, M. D.

Associate Professor of Dermatology.

Graduate, St. Louis University School of Medicine, 1912; Assistant in Dermatology and Syphilology, Barnes Hospital, St. Louis Children's Hospital, etc., 1921-22. Missionary, A. P. M. N., 1913—. Weihsien, 1913-21; Associate Professor of Dermatology, 1923—.

Hou Bao-Djang, 侯寶璋, M. D.

Instructor in Pathology.

Graduate of the School of Medicine; M. D., Peking Union Medical College, 1920. Hope Hospital Hwai Yuan, 1920-21; Dept. of Pathology, P. U. M. C., 1921-22. Assistant Instructor in Pathology, 1922-23; Instructor in Pathology, 1924—.

Ingle, Laurence Mansfield, 應樂仁, B. A., M. B., B. Ch.

Associate Professor of Anatomy.

Kings College, Cambridge, and London Hospital; B. A, Cambridge, 1912; M. B., B. Ch., Cambridge, 1919; Demonstrator in Anatomy, University of Cambridge, 1911-12, 1919; Captain, R. A. M. C., 1915-19. Missionary, B. M. S., 1920—. Associate Professor of Anatomy, 1922—.

Jacot, Arthur Paul, 賈珂, B. A.

Associate Professor, and Head of Department of Biology.

B. A., Cornell University, 1917. Research Work, Gov't. Bureau of Fisheries, 1917-18; American Museum of Natural History, 1918-20. Missionary, A. P. M. N., 1920—. Associate Professor of Biology, 1922—; Head of the Department of Biology, 1923—.

K'an Hsing-Wei, 康新維, B. S.

Assistant Instructor in Biology.

B. S., University of Nanking, College of Agriculture, 1924. Assistant Instructor in the Department of Biology, 1924—.

Kiang, Peter Ch'ing, 江清, B. A., M. D.

Professor of Bio-Chemistry.

B. A., St. John's University, 1911; M. D., University of Pennsylvania, 1915. Demonstrator in Anatomy, Harvard Medical School of China; Physician to St. James Hospital, Anking, and to Civil Governor's Yamen, 1917-19; Author of "Practical Dietetics for Nurses" and various monographs. Associate Professor of Bio-Chemistry, 1919-22; Professor, 1922—.

King, Myrtle, 王, B. A.

Instructor in English.

B. A., Goucher College, 1920. Teacher in High School, Canby, Oregon; Teacher in Elementary School, Hawaii; Teacher in Miyagi Girls School, Sendai, Japan. Instructor in English, Medical School, 1924—.

Lair, Howell Portman, 賴恩源, A. B., B. D., S. T. M., D. D.

Professor, and Head of Department of Religious Instruction.

A. B., College of Emporia, 1906; B. D., McCormick Theological Seminary, 1913; S. T. M., Union Theological Seminary, 1922; D. D., College of Emporia, 1923. High School Principal, Dodge City, Kan., 1906-07; Instructor, Syrian Protestant College, Beirut, 1909-12; Missionary, A. P. M. N., 1914—. Hainan, 1914; School of Arts and Science, 1915—; Associate Professor and Acting Head of Department of Religious Instruction, 1919-23; Professor, and Head of Department of Religious Instruction, 1923—.

Li Li-Tsuen, 李蠡軒.

Lecturer on Psychology.

Graduate of School of Philosophy, 1904. Lecturer on Psychology, 1920—.

Li T'ien-Lu, 李天祿, A. B., M. A., Ph. D.

Dean of the School of Arts and Science, Professor and Head of the Department of Education.

(See under Heading of Officers of Administration.)

Li Wen-Ch'ang, 李文昌, B. A.

Physical Director.

B. A., Peking University, 1915; Graduate of School of Physical Education, Shanghai, 1919. Physical Instructor, 1922-24; Physical Director, 1924—.

Lo Shih-Ch'i, 羅世琦, Ph. B., M. A.

Associate Professor of Religious Education.

Graduate of School of Arts and Science, 1914; Ph. B., Denison University, 1918; Rochester Theological Seminary, 1917-20; Union Theological Seminary, 1920-22; M. A., Columbia, 1921. Head-teacher of Kinhua Baptist Academy, and Kangchow Union Girls Higher School, 1915-17; Kinhua, Chekiang, A. B. M. N., 1922-23; Associate Professor of Religious Education, 1924—.

MacRae, John Donald, 瑞思培, B. A., B. D.

Acting President, Dean of the School of Theology, and Professor of New Testament Exegesis and Literature

(See under Heading of Officers of Administration.)

McAll, Percy Lonsdale, 孟合理, B. A. M. B. Ch. B.

Translation Bureau, and Lecturer in the Medical School.

B. A., Cambridge, 1892; M, B., Ch. B., University of Edinburgh, 1898. Medical Missionary, L. M. S., 1898—. Hankow, 1898-1920; Joint Charge of Union Medical College, Hankow, 1902-18. Lecturer in the Medical School, and Member of Faculty 1920—; Member of Scientific Terminology Committee for China, and Translator of Various Medical Books; on Staff of Medical Translation Bureau, 1920—.

McClure, William, 羅維廉, B. A., M. D., C. M.

Professor and Head of Department of Medicine.

B. A., McGill University, 1879; M. D., C. M., McGill, 1884; Medical Superintendent, Montreal General Hospital, 1885-88. Medical Missionary, Canadian Presbyterian Mission, 1888—. Honan, 1888-1916; School of Medicine, 1916—; Professor and Head of Department of Medicine, 1919—.

McHardy, Robert Stewart, 馬和德, B. Sc., B. D.

Associate Professor of Old Testament History and Exegesis.

University College of Wales, Aberystwyth; Regents Park College, University of London; B. Sc. London, 1907; B. D., London, 1912; University of Oxford, 1921-22. Missionary, B. M. S., 1913—. Shensi, 1913-18; School of Theology, 1918—; Associate Professor of O. T. History and Exegesis, 1919—.

Miner, S. Luella, 麥美德, B. A., M. A., Litt. D.

Acting Dean of Women, and Professor of Religious Education.

(See under Heading of Officers of Administration.)

Morgan, Julia, 馬珠麗, A. B., A. M., M. D.

Instructor in Internal Medicine.

A. B., Dickinson College, 1911; A. M., 1916; M. D., University of Pennsylvania, 1912; Interne, Univ. of Penn. Hospital, 1920-22. Missionary, Methodist Episcopal Mission, 1923—. Instructor in Internal Medicine, 1924—.

Mosse, Francis Henry, 慕如實, M. A., M. R. C. S., M. R. C. P.

Associate Professor of Medicine.

Trinity College, Oxford and Kings College Hospital, University of London; B. A., Oxon., 1908; M. A., 1911; M. R. C. S., L. R. C. P., 1913; M. R. C. P., 1918; Interneships, Kings College Hospital, Ealing, and Oxford. Captain, R.A.M.C., 1917-19. Medical Missionary, S. P. G., 1919—. School of Medicine, 1919—; Associate Professor of Medicine, 1922—.

Pa Ta-Chih, 把大旨, M. D.

Assistant Professor of Ophthalmology.

Graduate of Peking Union Medical College, 1918; Interne in P. U. M. C. Hospital, 1918-19; Assistant in Ophthalmology in P. U. M. C. Hospital, 1919-21. Instructor in Ophthalmology, S. C. U., 1921-24; Assistant Professor of Ophthalmology, 1924—.

PAILING, WILLIAM PERCY, 裴維廉, B.D., M.P.S., PH.C.

Associate Professor of Materia Medica and Pharmacy, and Chaplain of the University Hospital.

M.P.S., London, 1909; Ph.C., London, 1910; B.D., London, 1914; Regents Park College, University of London, 1911-14. Missionary, B.M.S., Shantung, 1914. University Hospital Pharmacist, 1916-24; University Hospital Chaplain, 1916—; Associate Professor of Materia Medica and Pharmacy, 1924—.

PARKER, ALBERT GEORGE, JR., 巴克爾, B.A., B.D.

Associate Professor of Sociology.

B.A., Park College, 1914; B.D., McCormick Theological Seminary, 1917; McCormick Fellowship for Study in Japan and China, 1917-19; University of Chicago, 1919-20. Missionary, A.P.M.N., 1920—. School of Arts and Science, 1920—; Associate Professor of Sociology, 1922—; Acting Head of the English Department, 1922-24.

PAYNE, E. JESSIE (MRS. HENRY), 潘夫人.

Lecturer in English

British and Foreign Schools Society's College, Darlington, Durham; University Extension Scholarship, Oxford; Teacher's Diploma; Seven Years Teaching in England. Missionary, E.B.M., 1907—. Tsow P'ing, 1907-14; Tsingchow, 1917-18; Lecturer in English, 1923—.

ROWLEY, HAROLD HENRY, 饒景道, B.A., B.D.

Associate Professor of Old Testament.

Baptist College, Bristol, 1910-14; B.A., Bristol, 1912; B.D., London, 1912; B.D. Honours (Hebrew and Aramaic), London, 1914; Mansfield College, Oxford, 1914-16. Missionary, B.M.S., 1922—. Tsingchow, 1922-24; Associate Professor of Old Testament, 1924—.

SCOTT, ANNIE V., 史安納, B.S., M.D.

Associate Professor of Pediatrics, and Acting Assistant Dean of Women.

B.S., North Carolina State College for Women, 1914; M.D., Women's Medical College of Pennsylvania, 1918. Missionary, A.P.M.N., 1920—. North China Union Medical College for Women, 1920-24; Associate Professor of Pediatrics, 1924—; Acting Assistant Dean of Women, 1924-25.

SHIELDS, RANDOLPH TUCKER, 施爾德, B.A., M.D.

Professor of Histology and Embryology.

A.B., Washington and Lee University, 1898; M.D., Medical College of Virginia, 1901; Assistant in Anatomy, John Hopkins Medical School, 1921-22. Medical Missionary, A.P.M.S., 1905—. Chekiang, 1905-8; Soochow Medical School, 1908-9; Dean of Medical Faculty, University of Nanking, 1909-17. School of Medicine, 1917—; Professor of Histology and Embryology, 1919—; Acting Dean of School of Arts and Science, 1919-20; Acting Dean of School of Medicine, 1920-21. Translator of "Anatomy", "Histology", and other medical texts.

SMITH, HAROLD FREDERICK, 明顯文, A.B., A.M.

Associate Professor of Education, and Director of Admissions.

(See under Heading of Officers of Administration.)

STEARNS, THORNTON, 單助華, B.A., M.D.

Associate Professor of Orthopedics and General Surgery.

A.B., Davidson College, 1906; M.D., Johns Hopkins, 1912; Interneships and residence posts, Johns Hopkins, Massachusetts General Hospital, and University of California Hospital. Medical Missionary, A.P.M.N., 1916—. School of Medicine, 1916—; Associate Professor of Surgery, 1919—; Acting Superintent of University Hospital, 1922-23; Associate Professor of Orthopedics and General Surgery, 1924—.

STRUTHERS, ERNEST BLACK, 杜儒德, B.A., M.B.

Associate Professor of Medicine.

B.A., University College, Toronto, 1910; M.B., Toronto, 1912. Medical Missionary, L.M.S., 1913-14; C.P.M., 1914—. Hongkong, 1913-14; Honan, 1914-17; School of Medicine, 1921—; Associate Professor of Medicine, 1923—; University Health Officer, 1922-23.

TIEN HSI-CHING, 田羲經, (S.C.U.)

Associate Professor of Mathematics.

Graduate of School of Arts and Science, 1910. Teacher of Mathematics, 1910-19; Associate Professor, 1919—.

TUCKER, EMMA CURTISS, 達, B.A., PH.D.

Instructor in English.

B.A., Mount Holyoke College, 1896; University of Oxford; Ph.D., Yale University, 1913. Teacher in various schools in U.S.; Teacher in North Japan College, Sendai, Japan; Instructor in English, 1924—.

WADDELL, SUSAN S., 萬素貞, B.S., M.D.

Associate Professor of Physiology and Pharmacology.

Wilson College, 1911-13; B.S., University of Pittsburgh, 1916; M.D., 1919; Instructor in Physiology, Univ. of Pittsburgh School of Medicine, 1919-21. Missionary, A.P.M.N., 1921—. North China Union Medical College for Women, Peking, 1921-24; Associate Professor of Physiology and Pharmacology, 1924—.

WANG CHI-CHEI, 王繼澤, B.SC.

Associate Professor of Chemistry.

Graduate of School of Arts and Science, 1911; B.Sc., University of Bristol, 1920. Teacher of Chemistry, 1913-18; Associate Professor of Chemistry, 1921—.

WANG HSI-EN, 王錫恩, (S.C.U.), 監生.

Professor of Mathematics and Astronomy.

Graduate of Tengchow College, 1893; Teacher of Mathematics, 1893-6; Chien Sheng (Chinese Honorary Degree), 1906. Teacher of Mathematics and Astronomy in School of Arts and Science, 1908-19; Professor of Mathematics and Astronomy, 1919—.

WANG HWEI-WEN, 王會文, (S.C.U.)

Assistant Professor of Anatomy.

Graduate of School of Medicine, 1915; Interne and Resident Surgeon, University Hospital, 1915-17; Assistant in Anatomy, 1917-22; Instructor, 1922-24; Assistant Professor, 1924—.

WANG LI-CH'IEN, 王履謙, (S.C.U.)

Assistant in Chemistry.

Graduate of School of Arts and Science, 1925. Assistant in Chemistry, 1925—.

WANG PING-HSIAO, 王炳霄, (S.C.U.)

Assistant Instructor in Physics.

Graduate of School of Arts and Science, 1922. Assistant Instructor in Physics, 1923—.

WHEEELER, EDWIN ROBERT, 惠義路, M.B., B.S., F.R.C.S.

Professor of Surgery, and Superintendent of the University Hospital.

(See under Heading of Officers of Administration.)

WRIGHT, HENRY WARDEL SNAREY, 魏亨利, M.B., M.S., F.R.C.S.

Associate Professor of Urology and General Surgery.

University College and Hospital, University of London; M.R.C.S., L.R.C.P., 1915; M.B., B.S., (Lond.), 1918; F.R.C.S., (Eng.), 1920; M.S., (Lond.), 1921; Captain, R.A.M.C., 1915-18; Clinical Assistant, West London Hospital, All Saints Genito-Urinary Hospital, Cancer Hospital, etc. Missionary, S.P.G., 1921—. School of Medicine, 1921—; Associate Professor of Urology and General Surgery, 1924—.

WRIGHT, HELENA ROSA, 魏海瀾, M.B., B.S.

Associate Professor of Gynaecology.

London School of Medicine for Women, and Royal Free Hospital, University of London; M.R.C.S., L.R.C.P., 1914; M.B., B.S., (Lond.), 1915; Interneship, Hampstead and Great Ormond Street Hospitals; Surgical Registrar, Westminster Hospital; In charge Surgical Wards, Bethnal Green Military Hospital; Clinical Assistant, Elizabeth Garrett Anderson Hospital for Women. Missionary, S.P.G., 1921—. School of Medicine, 1921—; Associate Professor of Gynaecology, 1924—.

WU, GIN-DING DAVID, 吳金鼎, (S.C.U.)

Assistant Instructior in the Department of Sociology and Economics.

Graduate, School of Arts and Science, 1924. Assistant Instructor in the Department of Sociology and Economics, 1924—.

(C) TRANSLATION BUREAU.

MCALL, PERCY LONSDALE, 孟合理, B.A., M.B., CH.B.

Head of Translation Bureau.

(See under Heading of Teaching Staff.)

CH'EN TSO-T'ING, 陳佐庭.

Member of Translatiou Bureau.

Assistant to Dr. Ingram in Translation Work, 1908; Member of Translation Bureau, 1918—.

LEO TEH-CHIN, 魯德馨.

Member of Translation Bureau.

Graduate of Griffith John College, Hankow, 1908; Union Medical College, Hankow, 1909-12. Tutor, U.M.C., and Translator, 1916-17; Member of Scientific Terminology Committee for China; Member of National Science Association. Member of Translation Bureau, 1918—.

Note:—Other members of staff give part time to translation; and other full-time Chinese pundits are employed under the direction of the Publication Committee.

(D) EXTENSION DEPARTMENT.

WHITEWRIGHT, JOHN SUTHERLAND, 懷恩光.

Director of Extension Department.

(See under Heading of Officers of Administration.)

T'ANG EN-LIANG, 唐恩良, B.Sc.

Assistant Director of Extension Department.

Graduate of Provincial College, Tsinan; B.Sc., Purdue, 1918. Assistant Director of Extension Department, 1922—.

CHAO HSI-HSIU, 趙希秀.

Assistant in Extension Department.

Assistant in Extension Department, 1906—.

CH'I TE-HSIANG, 亓德祥.

Assistant in Extension Department.

Graduate School of Theology, 1922. Assistant in Extension Department, 1923—.

WU TAO-CH'ANG, 吳道昌.

Assistant in Extension Department.

Graduate of Normal School, Tsingchowfu. Assistant in Extension Department, 1909—.

(E) HOSPITAL AND NURSING STAFF.

WHEELER, EDWIN ROBERT, 惠義路, M.B., B.S., F.R.C.S.
Superintendent of the University Hospital.
(See under Heading of Officers of Administration.)

LOGAN, MARGARET F., 羅根.
Superintendent of Nurses.
(See under Heading of Officers of Administration.)

DINKELACKER, BERTHA L., 丁美蘭, R.N.
Nurse.
Graduate of Methodist Episcopal Hospital Nursing School, Philadelphia, 1912. University Hospital, 1916—.

DINKELACKER, EFFIE I., 丁美蓉, R.N.
Nurse.
Graduate of Methodist Episcopal Hospital Nursing School, Philadelphia, 1916. University Hospital, 1916—.

HSIN CHAO-SHIH, 信肇實.
Assistant Resident Physician.
Graduate, School of Medicine, 1924. Assistant Resident Physician, 1925—.

KAO YU-HSIU, 高毓秀.
Nurse.
Sleeper Davis Hospital, Peking, 1921; Sloan Hospital, New York, 1923; Children's Hospital, Philadelphia, 1924. University Hospital, 1925—.

K'UNG CH'ING-YUN, 孔慶雲.
Assistant in Out-Patient Department.
Graduate, School of Medicine. University Hospital, 1924—.

LIU CH'ING-LAN, 劉慶蘭.
Nurse.
Graduate, University Hospital School of Nursing, 1924. University Hospital, 1923—.

LIU LIEN-HSI, 劉連熙.
Nurse.
Graduate, University Hospital School of Nursing, 1924. University Hospital, 1924—.

LU SUNG-YEN, 盧嵩巖.
Resident Surgeon.
Graduate of School of Medicine, 1923; Interne, University Hospital, 1923-24; Assistant Resident Surgeon, 1924-25; Resident Surgeon, 1925—.

NUNN, GLADYS V, L., 恩薇露.
Masseuse.
E. Suffolk Hospital, Ipswich; Westmister Hospital, School of Massage; Reg. Member of C.S.M.M.G. Missionary, W.M.M.S., 1923—. University Hospital, 1923—.

PAILING, WILLIAM PERCY, 裴維廉, B.D., M.P.S., PH.C.
Chaplain to University Hospital.
(See under Heading of Teaching Staff.)

POLLARD, ETHEL, 包德鄰.
Nurse.
Graduate of Bath General Hospital, 1915. Missionary, B.M.S., Shantung, 1916—. University Hospital, 1916—.

SO MU-TI, 索慕棣.
Assistant Pharmacist.
Graduate of North China Union College, 1914; Pharmacy Student, P.U.M.C. Hospital, 1914-19. Assistant Pharmacist, 1921—.

SUN YUN-CHIN, 孫雲錦.
Nurse.
Graduate, University Hospital School of Nursing, 1924. University Hospital, 1924—.

WANG CHIN-TE, 王振德.
Nurse.
Graduate, University Hospital School of Nursing, 1920. University Hospital, 1921—.

YANG CHI-LING, 楊濟嶺, (S.C.U.)
Assistant in Obstetrics and Ophthalmalogy.
Graduate of School of Medicine, 1923. Interne, 1923-24; Chengchow, Honan, 1924-25. Assistant in Obstetrical and Ophtalmalogical Department, 1925—.

YANG CH'UAN-PING, 楊傳炳.
Assistant, Skin Department.
Graduate, P.U.M.C., 1917. Assistant, Skin Department, 1924—.

YEN PIN, 燕弼.
Assistant Clinical Pathologist.
University Hospital, 1919—.

YU FU-HSIN, 于復新.
Assistant Clinical Pathologist.
University Hospital, 1914—.

(F) BUSINESS OFFICES.

HARMON, FRANK HENRY BRIGG, 郝恒瑞.
Business Manager, School of Medicine and University Hospital.
Missionary, B. M. S., Shantung, 1918—.

HICKSON, GRACE M., 希克塋.
Secretary to the President.
Missionary, B. M. S., Congo, 1913-17; Missionary, B. M. S., Shantung, 1924—.

HSIN TE-JUN, 辛德潤.
University Steward.

MORTON-SMITH, MAIDA, 司教士.
Secretary to the Dean of the School of Medicine.

OZORIO, C. M., 歐則如.
Accountant.

P'ENG HSIANG-SHENG, 彭翔生.
Chinese Secretary.

SHAEFER, KARL, 石發.
Superintendent of Works.

YANG FENG-CH'I, 楊鳳棲.
Manager of University Press.

GENERAL INFORMATION

HISTORICAL NOTE

Shantung Christian University, which was founded in 1904, represents one of the largest attempts at co-operative work in higher education on the part of Christian Missions in any part of the world. Thirteen Missionary Societies* from Great Britain, the United States, and Canada take a share in its maintenance, whilst it has also received generous assistance from the China Medical Board of the Rockefeller Foundation, the Shantung Provincial Assembly, and from other sources.

Although the University has occupied its present site for only the last eight years, its origin extends back to the educational work commenced in the east of the province as early as 1864 by the well-known American Presbyterian missionary, the Rev. Calvin W. Mateer, D. D., in which the Rev. Watson M. Hayes, D. D., also took a prominent part, and which led to the establishment of the Tengchow College. This College was removed to Weihsien in the year 1904, under the presidency of the Rev. Paul Bergen, D. D., and at the same time the English Baptist Mission, which had carried on successful educational work in Shantung for many years under the direction of the Rev. J. S. Whitewright, the Rev. Samuel Couling, and the Rev. J. Percy Bruce, entered into union with the American Presbyterian Mission. From that union the Shantung Christian University had its birth.

For several years the united missions carried on a School of Arts and Science in Weihsien, a School of Theology at Tsingchowfu, and a School of Medicine in Tsinan; but as the result of energetic efforts on the part of the Rev. H. W. Luce and others, funds were subsequently secured for the transfer of the Arts and Science, and Theological Schools to Tsinan, where the whole University was assembled in 1917.

*These are as follows:

Great Britain:	Baptist, Anglican (S. P. G.), London, Wesleyan, and English Presbyterian Mission.
United States:	Presbyterian North, Presbyterian South, American Board, Lutheran United Mission, Methodist Women's Foreign Missionary Society, Methodist Episcopal Mission, and Church of the Brethren Mission.
Canada:	Presbyterian Mission.

Large extensions were also made to the buildings and staff of the Medical School by means of a grant of G. $200,000 from the China Medical Board, who transferred to the School the three lower classes then studying in the Peking Union Medical College. At the same time (in 1916-17), acting on the recommendation of the Council on Medical Education of the China Medical Missionary Association, the Medical Department of the University of Nanking and the Hankow Union Medical College were amalgamated with the School of Medicine of the Shantung Christian University, and their students and certain members of their faculties transferred to Tsinan.

Another important addition to the University was made in the same year when the Tsinanfu Institute and Museum, founded in 1904 by the Rev. J. S. Whitewright of the English Baptist Mission, became incorporated in the University as its Extension Department.

In 1923 the sphere of the University was still further extended by the amalgamation of the School of Medicine with the North China Union Medical College for Women, Peking. Five members of the staff of that college, together with the student body, were transferred to Tsinan during the following months, and since that time all three schools of the University have been placed upon a co-educational basis.

CHARTER OF INCORPORATION.

The University is incorporated in the Dominion of Canada, a special Act having been passed by the Senate and House of Commons in 1924, and receiving royal assent on July 19th of that year (see pages 1—5). This Act has conferred upon the University the authority to grant such credentials and degrees, including honorary degrees, as are in accordance with the laws of China. A detailed syllabus will shortly be issued, giving requirements for such degrees as the University decides to offer.

PURPOSE AND SPHERE.

The main purpose of the University, as expressed in its By-laws, is "The advancement of the Kingdom of God through higher education of a distinctly Christian character, with a view to developing a capable and consecrated leadership for the Christian church and community in China."

With this object the University maintains the following departments:—

School of Arts and Science, the chief objective of which is the preparation of well-trained teachers. This school offers a four-year College course, including a choice of subjects from various selected groups. It also provides Pre-Medical and Pre-Theological instruction for students planning to enter the Schools of Medicine and Theology.

School of Theology, for the preparation of well-trained ministers, evangelists, and other religious workers. The ordinary course consists of four years, the first year of which is spent in the School of Arts and Science. A special post-graduate course of three years is being prepared for those who have already graduated in Arts.

School of Medicine, for the training of such students as have already completed a Pre-Medical course of at least two years, either in the special Pre-Medical Department of the School of Arts and Science or in some other institution of equal standard.

University Hospital, with attached Nurses' Training School for both men and women nurses.

Extension Department, for the cultivation of social and religious contact with the people of the city and district. This Department is carried on through the use of public lectures, evangelistic addresses, models, graphic charts, etc., and is visited by nearly half a million people annually.

MEDIUM OF INSTRUCTION.

The Chinese (Mandarin) language is the main medium of instruction throughout all the schools of the University, students being encouraged to assimilate all branches of knowledge in their own tongue. At the same time, English is a required subject at the entrance examination and throughout the whole curriculum. The use of English text-books and reference books is encouraged, and such students as show an adequate knowledge of English are permitted to elect certain courses which are taught through that medium of instruction.

LOCATION AND BUILDINGS.

The University is situated on a large campus of nearly one hundred English acres, in the south suburb of Tsinan; the Medical School, Hospital and Extension Department being just within the suburb wall, in contact with a well-populated residential district, whilst the remainder of the University is on an adjoining site outside the wall, close to the southern hills.

The buildings and equipment, which represent gifts to a value of over $1,500,000 Mex., from friends in the United States, Great Britain and Canada, include the following:—

McCormick Administration Hall
Kumler Memorial Chapel
Calvin Mateer Science Hall
Bergen Hall
Gotch-Robinson School of Theology
Augustine Library
School of Medicine
University Hospital
Arthington Institute (Extension Department.)

The Science Halls and Medical School include a large number of laboratories, fitted with modern equipment, and with apparatus for the individual use of students; the University Hospital, which was erected in 1915, is also furnished throughout on modern lines.

The Extension Department (formerly known as the Tsinan Institute and Museum) contains a great many self-explanatory models and charts, illustrating religion, natural history, astronomy, ethnology, hygiene, etc.; and giving practical instruction in such measures as are being employed in all parts of the world for the physical improvement and the mental and spiritual enlightenment of humanity. Two lecture halls, one capable of accommodating 500 people, are in constant use.

The dormitories of the Arts and Science, and Theological Schools are situated on the east side of the main campus, and arranged in courts, each student having a separate room. The Medical dormitories are located inside the suburb wall, adjoining the School of Medicine, and are arranged for two students per room. The dining-rooms are connected with the dormitories and are under the entire control of students' committees.

A special dormitory for women students was erected in 1923 in the north-west corner of the campus, including rooms for some of the women teachers. This portion of the University grounds has been set apart for women students, and includes their own recreation grounds and staff residence.

Other residences for the teaching staff are situated both within and without the suburb wall; whilst beyond the eastern dormitories a group of Chinese houses, known as the Follansbee Village, has been developed, in accordance with Chinese ideas, for the accommodation of a portion of the Chinese staff.

THE AUGUSTINE LIBRARY.

The Augustine Library, which was built for the University by the generous gifts of the Augustine Presbyterian Church, Winnipeg, consists of a large reading-room, stack-room, and various associated offices, together with smaller rooms for newspapers and for department seminars. The Library possesses a total of about 19,000 volumes, of which 6,000 are in Chinese, and 13,000 in English, and regularly receives about fifty English periodicals and about twenty Chinese journals.

Within the past few years it has received generous gifts from the Carnegie Institute of Washington and from other sources, whilst the beginning of a special collection of books on China has been made possible through the generosity of Mrs. T. B. Blackstone. A branch Medical Library has also been established in the School of Medicine, in which are over two thousand books, and which regularly receives about forty medical journals.

The Library is now under the supervision of a trained librarian, and is open during the day and in the evenings for the convenience of students.

COLLEGE ORGANIZATIONS AND STUDENT ACTIVITIES.

Students' Self Government. For the last few years the control of the Commons has been in the hands of the students themselves, who elect their own committees and officers, and appoint their own assistants. The sphere of of self-government has now been considerably extended, so as to include matters connected with dormitory discipline, and the general maintenance of cleanliness and order in the students' quarters. The Student Self-Government Council also acts as a means of self-expression of the whole student body, and as a coordinating link with the faculty.

Athletics. The University possesses its own athletic track, football fields, tennis courts, basketball courts; volley ball courts, and baseball grounds, which are under the control of a special Athletic Association consisting of representatives of the student body and of the staff. Physical exercise is required of all students of the University except those who are exempted on medical certificate, and a full-time physical instructor devotes himself to this important branch of education.

During the past two years the University has secured several notable successes in athletic meets in China. An Annual Track Meet for the students of the University is also held every spring, and a Provincial Inter-High School Meet is organised by the University on the occasion of the National Holiday (October 10th).

Medical Inspection. Every student in the University is given a thorough physical examination annually by the University Health Officer and his associates, and careful records are kept of the physical condition of each student and of any elements of weakness requiring supervision. The fact that the University Hospital and Out-Patient Dispensary form part of the general University buildings makes it possible for all students to obtain expert medical advice, whilst cases needing special treatment or nursing are cared for in the hospital wards.

Religious Life. Apart from the regular Morning Chapel and the University Service on Sunday mornings, the religious life of the student body largely centers in their own Christian Associations in each of the three Schools and in the School for Nurses. The young women students have their own Association. During the past year these associations have been federated so that united action and service might be facilitated. Besides these associations there is a Student Volunteer Band, and some devotional groups which have sprung up spontaneously. The students' religious activities include meetings for inspiration and prayer, Bible study groups, social service work, evangelistic addresses in the hospital wards and Extension Department, teaching and singing in the Sunday-schools and churches of the city, and attendance at summer conferences. The custom has been started of having an annual retreat for the leaders of the student body. At these retreats, which are held on a nearby mountain, the chief concern has been the problem of developing a unity of Christian spirit among the students, who come from many different parts of the country and speak may different dialects.

The University Choir. The University Choir is composed of men and women students and faculty members from all departments of the University. The director is the Rev. S. C. Harrisson. There is a regular weekly meeting for practice. The choir helps to lead in the worship at the Sunday morning service, and the members from the Arts and Theological Colleges assist with the music of the daily

chapel services. This organization gives an opportunity for a musical training and service which will be of great value to the members when they enter other communities which need this special form of service.

The English Clubs. With the multiplication of activities and courses carried on through the medium of the English language there has been a corresponding increase in the student interest in this subject. An outlet for those who wish to practice their attainments in this language is offered by the two bodies known as the Upper English Club and the Junior English Club, organized in 1924. The former includes students in the senior courses and the latter those in the junior and Pre-Medical courses. Nearly one hundred members are at present enrolled. Members of the staff of the English Department act as advisors, but the responsibility for the preparation of programs and the administration of club affairs depends on the student officers. The English Clubs aim not only to assist the work of formal instruction in the Department of English, but also to act as a unifying influence among the various groups and colleges of the University.

The Natural Science Association. The Natural Science Association draws together students in Arts and Science who are specializing in biology, chemistry, and physics, as well as students in medicine and pre-medicine. The aim of the Association is to supplement class-room activities and to provide greater opportunity for student initiative in the preparation of reports and in simple scientific investigations. Monthly meetings take the form of lectures by outside speakers and reports by student members. The Association also gives its attention to the writing of articles of popular scientific interest, and offers annual prizes for the best reports on selected topics of current interest.

Other Extra-curiculum Activities. A large number of other extra-curriculum activities are organized and conducted by the students. These for the most part take the form of social or religious service, such as the conducting of regular Night Schools for the children of the district and for the University employees; the holding of Vacation Day Schools in various centers during the summer holidays, and the like. The Extension Department, with its convenient social rooms and large crowds of visitors, affords unrivalled opportunity for all forms of service which brings the students into direct contact with the community. A Social and Religious Center is conducted at a short distance from the University by one of our Theological gradutes, and many forms of community service are carried on there.

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The students also attend in large numbers the General University Lectures which have been arranged each year, in which various members of the faculty discuss topics of popular and general interest; and from time to time special lectures are arranged for the whole student body, as opportunities are provided by the visits of educational and religious leaders from other parts of China or from the West.

THE ALUMNI ASSOCIATION.

The University Alumni Association was organized at a meeting held in Weihsien November 4th, 1916. Graduates of any of the three Schools of the University, and of the former colleges at Tengchow, Tsingchowfu, and Weihsien, from which the University has been formed, are all considered as members of the Association. At the present time the alumni of the University are more than nine hundred in number.

The Alumni Association has shown unusual interest and activity during the last two years. Perhaps the most conspicuous of its achievements during that time has been the erection of the beautiful new Alumni Gateway which was formally presented to the University on June 17th, 1924. The Association has also contributed generously to "CHEELOO", the Quarterly University Magazine, which is sent to each alumnus and serves to keep all the graduates in intimate touch with the life and progress of the school.

The present officers of the Alumni Association are:— Rev. I Hsing-Ling, President; Mr. Ch'in Yao-T'ing, Vice President; Mr. Wang Chi-Chei and Mr. Wu Chin-Ting, Secretaries; and Mr. Chao Hsi-Hsiu, Treasurer.

The Association also elects two members of the University Field Board of Managers, its present representatives being Mr. Lien Chih-To and Mr. Sung Chuan-Tien.

ENTRANCE REGULATIONS

I. GENERAL REGULATIONS

Admission to University. Admission to Shantung Christian University from middle schools is by the general matriculation examination, or by certificate. In addition, the student's school record for the six years of middle school work must be presented, and the evidence of this record will have considerable weight in his acceptance or rejection. The other method of gaining entrance, by transfer from another college, will be taken up later.

First:—The student wishing to enter the University should procure application blanks from the Director of Admissions. These blanks should be filled out and sent to the Director as soon as possible, but the third blank (school record) should be sent only after the student has finished his middle school course, so that the records therein may be complete.

Second:—If the student is to enter by examination, he should select the two subjects in which, in addition to the three compulsory examinations, he will sit for examination. He should make sure that he has received a receipt from the University for the examination fee of one dollar, and that both he and the University know at which centre he will sit for examination and in which subjects he will be examined. If the student is to enter by certificate, he should make sure that the certificate as well as the application blanks are filled out and sent to the University several months before the date of entrance, so that there may be no delays in entrance in case questions arise in connection with these papers.

Third:—After the University has accepted the results of the examination and the records on the blanks as satisfactory, and has informed the student of this fact, the student should come to the University at a date early enough to ensure the taking of the University medical examination in the week preceding registration, the securing of a dormitory room, and the registration and payment of fees on the prescribed date.

The scholastic work of Shantung Christian University is carried on in three Schools:—the School of Arts and Science, the School of Theology, and the School of Medicine. The work in the School of Arts and Science presupposes six years of middle school work. The entrance examinations are based on this amount of preparatory work, and application blanks should give evidence of this amount. Only under exceptional conditions, carefully stated, will admission be granted to students with less preparation.

The work in the School of Theology presupposes at least a one-year Pre-Theological Course of college grade. This course may be taken in the School of Arts and Science, and it has the same general entrance requirements as the other courses in that School. The work in the School of Medicine presupposes a two-year Pre-Medical Course. This course may also be taken in the School of Arts and Science, and it has the same general entrance requirements as the other courses in that School.

Application for Entrance. Candidates for entrance to any of the Schools or courses of the University are required to present an Application for Entrance, made on the blank forms furnished by the University, which will be supplied by the Director of Admissons. This Application for Entrance is in three parts:—(A) An application blank to be filled out by the the candidate; (B) A medical certificate filled out and signed by a qualified physician; and (C) A certificate of the scholastic work and moral character of the candidate to be filled out by the principal or headmaster.

Application for admission (A) must be accompanied by the medical certificate (B), and by a photograph of the candidate duly certified by the applicant and by the principal or headmaster of the school last attended. If the applicant expects to enter by the matriculation examination, application (A) must be accompanied by an examination fee of one dollar. No applicant will be admitted to an examination without a receipt for this examination fee signed by the Director of Admissions. Application (A) may be sent to the University at any time during the year prior to the date of admission, but *at the latest must be filed one month before the time set for the examinations. Candidates making application after June 1st will experience great difficulty in taking the entrance examination and in receiving consideration of their applications.*

These Applications for Entrance should be filled out as completely as possible. When there is doubt as to a candidate's admission, considerable weight may be given to his record of specific experience and unusual qualifications. No results of entrance examinations will be reported, or application for admission be approved, until Application (A), (B) and (C), as well as the photograph of the candidate, have been filed in the office of the Director of Admissions.

Physical Examination. Sound physical health is essential for efficient University work. It will aid the University and in the end be to the interest of the applicant if the medical examiner, when filling out the medical certificate, will refuse to pass a student who is not robust enough to pursue a university course of study. For purposes of record, in addition to the Medical Certificate, the University requires each new student to take a medical examination at the University before he registers. New students, therefore, should arrive at the University a few days before the day set for registration.

Intelligence Test, An intelligence test is given all candidates for entrance, whether entering by examination or by certificate. This is not an examination in the subject-matter of the middle school course; it is to test common sense and general fitness for university work, and no preparation is necessary. For the year 1925 it will be used for record and future reference rather than for the determination of the candidate's entrance to the University, and will be given on the day before registration and at the University only.

Entrance by Certificate. Middle schools which maintain certain high standards will be accredited. A student who has graduated from one of these schools with a high record of achievement, and who presents a certificate from the principal or headmaster stating that he is well qualified in character and ability to undertake university studies, will be received without examination. In all cases the usual Application for Entrance must be presented.

Admission of Women. Women are admitted to the Pre-Medical, Pre-Theological, and Education Courses of the School of Arts and Science, and to the School of Medicine and the School of Theology. This entrance is subject to the same regulations and conditions as for the men students.

Entrance with Advanced Standing. Students who have satisfactorily completed at least one year of work at a recognized institution

of college or university grade may be admitted to such advanced standing as their previous records may warrant. In filing applications for admission with advanced standing, students should furnish a complete record of their preparation in the middle school, and of their college work. Before being admitted, such students must file certificates of honorable dismissal, or their equivalent, from the college whence they are transferring, and also a medical certificate.

Credit for Summer School Work. Properly qualified students taking subjects of university grade in the University Summer School may register for University credit for work done in that school. Summer School opens in 1925 on July 1st. For further information see the bulletin of the Summer School.

Post-Graduate Students. Graduates of recognized institutions of college or university grade will be received for post-graduate work in the School of Arts and Science and the Theological School on presentation of proper credentials.

Graduates of medical schools are also received for registration in the Medical School as special students. They are allowed to attend classes, clinics, operations, etc., on the same conditions as undergraduate students, but it is not possible to arrange special exercises for their instruction. Inquiry may be made of the Dean in regard to terms.

Special Students. Students who do not expect to finish their university course, or who are not working for a diploma or degree, may be received as "Special Students". Each case will be considered on its merits, and such students admitted only by specific action, except that applicants who have graduated from middle school and have taught three years may, without specific action, be admitted as special students in education. The general regulations governing entrance to the University must be complied with. Special students in the Arts College are required to pay a special fee of five dollars.

Registration. Before attending any University exercise each student must present himself at the office of the Registrar and there file a registration blank giving such information as may be required for the University records. New students will then select their major subject and receive a course card, after which the required fees should be paid to the Treasurer. The student's statement of courses can be prepared only by consultation with the Student Advisor for the major course in which the student is registered, and this statement must be signed

by the Dean. Students registering late are charged an additional fee of one dollar a day up to a maximum of three dollars. Late registration after three days is only on approval of the Dean. No student may be received later than two weeks after the beginning of the term except by special action of the Committee on Admissions. Each person whose registration has been completed will be considered a student of the University and subject to the regulations of the University during the period for which such registration is held valid.

2. ADMISSION TO SUB-FRESHMAN YEAR.

Entrance to the Sub-Freshman Year is by examination only. Candidates for entrance to this year must present Applications for Entrance (A), (B), and (C), and comply with the other general regulations governing entrance to the University. Candidates must present satisfactory evidence of the completion of five years of middle school work, and must take an examination similar in subjects and regulations to the General Matriculation Examination. This examination will be based on the work of a five-year middle school course. It will be given at the same time as the General Matriculation Examination. Students in the Sub-Freshman Class who wish to enter the University Freshman Class are required to take the General Matriculation Examination, with this exception:—students who receive a rank in their class among the highest thirty percent may be admitted to the Freshman Class without examination. The Sub-Freshman Year will be discontinued after the school year 1925-26, and its work taken over by the University Middle School.

3. ADMISSION TO THE COLLEGE OF ARTS AND SCIENCE.

(INCLUDING PRE-MEDICAL AND PRE-THEOLOGICAL COURSES).

Entrance Examinations. The examination admitting to the Freshman Year of the School of Arts and Science is known as the General Matriculation Examination. This examination is held each year, commencing the first Monday of July. The date for 1925 is July 6th, 7th, 8th. ***Registration for the examination and requests for the examination questions must be sent to the Director of Admissions not later than June 6th.*** Each registration for the examination must be accompanied by an examination fee of one dollar. No

candidate will be admitted to an examination without holding a receipt for this examination fee signed by the Director of Admissions.

This examination is held regularly at Tsinan in the University buildings, but may also be held at any of the following or other places from which there is a sufficient number of applications:

Tsinan	Shanghai	Hwaiyuan	Sianfu
Weihsien	Tsingchow	Weihweifu	Chefoo
Peking	Hankow	Taiyuanfu	Suchowfu, Ku.

By special arrangement the University of Hongkong Matriculation is accepted in lieu of the General Matriculation Examination of this University.

Regulations for the Conduct of the Examination. Uniform examination paper furnished by the University must be used. The papers will be numbered and no other marks indicating the identity of either the examinee or of his school may appear on the paper.

In examinations in Mathematics or in subjects requiring mathematical demonstrations, and in Essay papers, all the work done must appear on the papers which are submitted to the examiner, and processes as well as results will be considered in fixing the grades.

The language to be used in the examinations is understood to be Chinese, except in the examination in English; but in the General Matriculation Examination students whose preparation either wholly or in part has been in the English language may, at their option, take the examination in such subjects in either English or Chinese.

Examination Subjects. Candidates sitting for the General Matriculation Examination are examined in five subjects. Three of these subjects are compulsory and two are elective. The subject-matter on which these examinations are based is described in the syllabus of University entrance subjects (see page 40).

(a) Compulsory Examination Subjects.

1. *Chinese Language and Literature.*
   An essay, either in Mandarin or Wenli, of not less than 300 characters, is required.
2. *English Language.*
   This examination may be waived in the case of Pre-Theological students who are not seeking a degree, but in this case another subject must be chosen from the elective groups so as to make a total of five examination subjects.

3. *General Mathematics.*
   Since some candidates in 1925 may not have been prepared in the more practical problems of arithmetic, algebra, and geometry of which this course consists, the examination this year will contain a number of elective questions based on the older type of examination.

These compulsory examinations are in the "tool subjects", the subjects in which a student must be well grounded in order to be able to do University work.

(b) Elective Examination Subjects.

The candidate will choose two subjects from the following list, but not more than one subject from any group. This choice must be made before the candidate enters the examination and should be made a sufficient time in advance to permit of adequate preparation. Pre-Medical candidates are required to choose one of their two elective subjects from the Natural Science Group.

Group A. Natural Science
1. Physics
2. Chemistry
3. Biology

Group B. Political Science
1. Chinese History
2. Western History
3. Civics

Group C. Mathematics
1. Algebra
2. Plane and Solid Geometry
3. Trigonometry

Group D. Geography

Group E. Religious Education

A candidate taking an examination in natural science must present his laboratory note-books certified by his teacher and by the middle school principal or headmaster. These will be credited as part of the examination. The examination as well as the notebooks must give evidence that the student has had individual work in the laboratory and that he is familiar with the fundamentals of laboratory technique and physical measurement.

Pass-Grade and Conditions. The pass-grade is 60%. Students failing in one subject may be allowed to enter the University, provided that their grade in that subject is not less than 40% and that their general average for all subjects (including that in which they failed) reaches the minimum of 60%. This failure in an entrance examination subject constitutes a condition. When such a condition is allowed it must be removed by examination not later than one year from the date of entrance. To be admitted with a condition, a candidate's total record (school record and examination record) must be such as to show clearly that he is a desirable student.

Middle School Subjects Offered for Entrance. A unit of study in a middle school is defined as one 45-minute period of prepared classroom work per week throughout one semester in the junior middle school, or one 50-minute period of prepared classroom work per week throughout one semester of the senior middle school. Two periods of shop or laboratory work and the like shall be considered equivalent to one period of classroom work. The length of a semester should be from eighteen to twenty weeks.

The work of a six-year middle school should approximate 300 units. The University is prepared to recognize for entrance credit any subject having an established place in the middle school curriculum, in which adequate instruction is given, and which produces satisfactory results.

SYLLABUS OF MIDDLE SCHOOL SUBJECTS

The following brief statement will indicate in general the attitude of the University in judging the preparation deemed necessary in entrance subjects. No attempt is made to describe in detail all or any of the subjects which may be included in the middle school curriculum or offered for entrance. The chief purpose of this syllabus is to indicate in general what preparation is necessary for the entrance examinations.

No syllabus is included here for the middle school courses in Civics and Geography. This is because the text books and methods of instruction at present in use are neither sufficiently uniform in material nor adequate in treatment. Requests for examinations in these subjects must be accompanied by a full statement of the texts used and the ground covered. Only when the text and the ground covered seem to be adequate will the request for an examination be granted. The examination will in general be based on the course which has been studied by the student sitting for the examination.

Chinese History. (18 to 25 units).

The preparation in Chinese History should include the following topics: The learning and industry of the Former Han Dynasty; the learning, religion, and industry of the Later Han Dynasty; the learning and religion of the Eastern Tsin Dynasty; the learning, religion and industry of the Northern and Southern Ch'ao Dynasties; the learning, religion, and industry of the T'ang Dynasty; the learning and religion of the Northern and Southern Sung Dynasties; and also learning, religion, and industry under the Yuan, Ming, and Ch'ing Dynasties and under the Republic.

Chinese Language and Literature. (60 units).

There is so little uniformity among middle school courses in Chinese Language and Literature that it is impracticable to enforce detailed entrance requirements. The entrance examination is intended to test the student's ability to use the language in expressing ideas clearly and properly, and to test his general knowledge of the content of Chinese Literature. Schools should emphasize the methods of teaching, require the reading of newspapers and magazines, and spend considerable time on Modern Chinese. We would further recommend that in addition to the usual weekly essay there be some practice in practical composition once a week.

English. (60 units).

The primary aim of instruction in English in middle schools is clearness. Based upon grammatical correctness, which is the peculiar goal of elementary English conversation and composition, this is the quality by which the University matriculation examinations are rated, both for General Arts and for Pre-Medical candidates.

I. Work in English Conversation should be given at least two recitations a week throughout the six years of middle school. The student's efforts should be mainly devoted to the acquisition and the correct use of a limited vocabulary of every-day spoken English. The vocabulary found in the first four books of the Mastery of English Series is perhaps best suited and most convenient for such a foundation. For freshman classification, the University uses the more complete "Fundamental Vocabulary" of the University of Iowa. Entrants are expected to be familiar with the first three thousand words of this list. (Sample sets are on sale at the Bookroom of the University).

II. English Composition requires at least one or two recitations a week throughout the middle school course. The greater part of the student's time should be given to informal composition of sentences, paragraphs, and short themes. In the senior middle school however, some attention should be paid to the application of the fundamental principles of formal grammar. Among other texts the following are suggested as especially useful; Graybill's "Writing English", Wooley's "Written English", Fong Sec's "Intermediate Composition", and Tseu's "Specimens of Short Essays".

III. English Literature must be left for the most part to the collegiate course, but an introduction to a few foreign literary models may be given through senior middle school courses, using the collections of short stories or the series of English and American classics adapted to Chinese schools. Rapid sight reading, silent reading, and round-table discussions of these books in the last year of middle school should provide a basis for more advanced study in the University.

IV. Standards for English in the University correspond to those of the "Diagnostic English Mastery Chart" (published by Edward Evans and Sons, Ltd.). For 1925 the matriculation standards for the freshman class are fixed at 60 year-periods of English and a 'T' score of 56 or over. Any student with a 'T' score averaging less than 50 in such tests as the vocabulary, grammar-idiom, auditory comprehension, and silent reading tests, cannot do satisfactory work in the freshman class.

Mathematics.

(*a*) *General Mathematics.* (10 to 15 units).

General mathematics should consist, in correlated form and with the use of practical and experimental methods, of the fundamental principles of arithmetic, algebra, geometry, and numerical trigonometry. The following topics should be studied:

Linear equations in one unknown;
Ratio and proportion;
Quadratic equations in one unknown;
Numerical trigonometry, use of sine, cosine, and tangent in the solution of simple problems involving right triangles;
Rational use of significant figures;
Graphic representation of statistical data;
The linear function, $y = mx + b$;
Graphic solution of problems;
Empirical curves, fitting curves to observations;
Simple formulas, meaning and use;
Negative numbers, meaning and use;
Simultaneous linear equations in two unknowns;
Graphs as methods of representing dependence;
Computation with approximate data;
Variation;
The quadratic function $y = ax^2 + bx + b$;
Use of tables in computation other than logarithms;

It is recommended that the middle schools give careful attention to the thorough mastery of these tool subjects and of the mathematical technique which they involve, giving ample opportunity for the ready application of the principles to practical situations and problems.

The scope and character of the course are shown in the following text books: "The New System Series of Correlated Mathematics for Junior Middle Schools", and "Breslich's Mathematics", Books I and II.

(*b*) *Advanced Middle School Mathematics.* (10 to 15 units).

Entrance examinations in advanced mathematics are based on (a) a course in Combined Mathematics or courses in Algebra and Plane Geometry; (b) Solid Geometry; and (c) Plane Trigonometry.

(*1*) *Algebra.* (8 to 10 units).

The course in Algebra should cover the following topics; Algebraic addition, subtraction, multiplication, and division; Special methods in algebra; Factors; Highest common factor; Lowest common multiple; Fractional equations; Simple equations; Simultaneous simple equations; Simple equations graphs; Inequalities; Involution and evolution; Theory of indices; Radicals; Radical equations; Surds; Quadratic equations; Simultaneous quadratic equations; Roots; Quadratic equations graphs.

(*2*) *Plane Geometry.* (3 to 5 units).

The course in plane geometry should cover the following: The straight line; The circle; Proportion; Similar polygons; Area of polygons; Rational polygons.

(*3*) *Combined Mathematics.* (10 to 15 units).

With the foundation of the course in General Mathematics in the junior middle school, the work in the senior middle school should consist of a year, or a year and a half;—half a year being given to Demonstrative Geometry, half a year to Algebra, and half a year to a review of General Mathematics with the addition of a study of the use of the slide rule, and the use of Logarithms in computation.

(*4*) *Solid Geometry.* (3 to 5 units).

The work in Solid Geometry should include the following: Space—lines and planes; The Polyhedron; Cylinder; Cone; Pyramid; and Sphere.

(*5*) *Plane Trigonometry.* (5 to 8 units).

The work in Plane Trigonometry should include the following: Functions of acute angles; Right-angled triangles; Methods of measuring triangles; Oblique triangles; Problems of measurement; Tables and construction.

Religious Education. (20 units).

The courses in Religious Education studied in the junior and senior middle schools and offered for university credit should cover in general the following topics. The entrance examination will be based on these topics, but a choice of questions will be allowed since a complete covering of all topics is not expected.

1. *Old Testament Biography.*

   Study the main points in the lives of Abraham, Moses, Samuel, David, Solomon, Elijah, Amos, Isaiah, Jeremiah, Nehemiah, Ezra.

2. *New Testament Biography.*

   The life of Jesus Christ; and the lives of Paul, Peter, John, and Mark.

3. *The lives of great men and women of Christendom, as:*

   St. Augustine, Martin Luther, St. Francis, Wycliffe, John Knox, George Fox, Elizabeth Fry, Florence Nightingale.

4. *Old Testament History.*

   a. Old Testament geography.
   b. Early Hebrew life and history before the settlement of Canaan.
   c. Social conditions before the establishment of the kingdom.
   d. The rise of the kingdom and the causes and results of its division.
   e. The period of the two kingdoms; emphasizing the influences of Syria, Egypt, Assyria, and Babylonia.
   f. The history of Judah after the fall of Samaria.
      The work of Isaiah, the reform of Josiah, and the work of Jeremiah.
   g. The dispersion and the religious significance of the exile.
   h. The return to Jerusalem.—The work of Nehemiah and Ezra.
   i. The sources of the Old Testament and the history of its literature.

5. *Studies in the life of Christ, emphasizing his character, work, and teachings.*

6. *Studies in Acts and the Pauline letters.*

The following texts, or similar ones, cover the ground of the topics given above.

Luce, Life and Teachings of Christ	Mission Book Co.
" The Acts and Epistles	" "
" A Harmony of the Gospels	" "
Wright and Chen, Old Testament History	Kuang Hsueh Pub. Co.
Chen and Rawlinson, Historical Life of Christ	Mission Book Co.
Rauschenbusch, Social Teachings of Jesus	Kuang Hsueh Pub. Co.

Also consult

Mandarin Bible Dictionary	Religious Tract Society.
Hastings Bible Dictionary	Kuang Hsueh Pub. Co.
Hayes, Church History 2 vol.	" " " "
Christian Biographies	" " " "
Allen, Life of Martin Luther	" " " "

Science. (Biology, Chemistry, Physics).

A candidate taking an examination in any of the above subjects must present his laboratory note-books, as a record of the experiments which have been performed by the student himself. Each experiment should be initialed by the instructor. The note-books as well as the examination must give evidence that the student has had individual work in the laboratory and that he is familiar with the fundamentals of laboratory technique.

The note-books must be certified by the principal or head-master of the middle school, and should be sent—preferably by the school directly, rather than by the student—to the Director of Admissions of the University.

It is to be understood that note-books which contain merely notes taken during the instruction periods, notes on demonstrations, or notes copied from text-books, cannot be considered as fulfilling this requirement.

Biology. (6 to 10 units).

The course should require three double-periods of laboratory work and two single-periods of recitation per week throughout the year.

The scope of the requirement in biology is indicated below:

I. How Plants and Animals Live.

Environment, adaptation and adjustment, orderly arrangement of kinds, life of Artemisia, life of Honey-bee.

II. Relation of Life to Food.

(1) In Plants:—Structure and work of roots, soils and soil conservation; structure and work of stems; forestry; structure and work of leaves.

(2) In Animals:—Food of animals; digestion; respiration and circulation.

III. Responses.

Examples of simple responses; chemical senses; sound and hearing; light and vision; tactile senses; nervous system of animals; instinct, habit, and intelligence; effects of poisons.

IV. Growth and Reproduction.

(1) Life histories of plants:—An alga; a moss; a fern; a flowering plant; pollination; seeds; fruits; seed distribution; propagation of plants.

(2) Life histories of animals:—A fish; a frog; a bird; a mammal.

(3) Varation and heredity.

V. Interrelation of Life Forms.

Parasites; symbionts; saprophytes; commensals; predators; slaves.

VI. Applications of Biological Principles.

Seed selection; animal breeding; causes of disease; prevention of disease; carriers of disease (fly, mosquito, etc.) plant disease and controls; weed problem; parasitic worms; insect enemies and their control; fish culture; birds in relation to man.

Special stress should be placed on the preparation of the laboratory reports. The student should be trained to present his facts in as concise and systematic form as possible. Tabulation, and simple, unshaded, outline drawings are the most satisfactory ways of recording the observations. Each section of the subject should be followed by a review and summarization which will insure that the students have grasped the principles underlying their observations.

Theories and material of philosophical interest alone should form no part of the course. The course should be in every way practical.

The following texts are recommended for the guidance of the teacher:—

Atwood— Civic and Economic Biology.
Gruenberg— Elementary Biology.

Hunter— Civic Biology.
Hodge and Dawson— Civic Biology.
Gruenberg and Wheat— Student's Manual of Exercises in Elementary Biology.
Bergen and Davis— Laboratory and Field Manual of Biology.
Hunter— Laboratory Problems in Civic Biology.
Gruenberg— Manual of Suggestions for Teachers.

Chemistry. (6 to 10 units).

At least half of the number of units of credit in chemistry should represent laboratory work. Ten units of credit will represent about two periods of recitation work and three double-periods of laboratory work per week for two semesters.

The topics covered in the middle school chemistry course should include the following:

Use of the balance;
Principles of the quantitative method;
The atmosphere and oxygen;
Nitrogen;
Carbon and its compounds;
Fuels;
Water and hydrogen;
Acids, bases;
Chlorine and the halogens;
Salt, soda, saltpeter;
Representative metals;
Chemistry of plant life;
Chemistry of animal life;
Foods and nutrition.

The method of teaching the chemistry course is far more important than the subject matter; and credit will be given according as it is evident that the student has received an intelligent grasp of the subject and its relation to the problems of his environment, rather than evidence of having studied a certain number of prescribed topics. All topics should be introduced through the medium of the laboratory, and the other class periods should be used essentially to supplement the laboratory work. A thoroughly inductive treatment is desirable. The emphasis in middle school chemistry should be constantly on applications. The course should be planned definitely to interpret in a scientific way the chemical phenomena of everyday life. Theories should not be stressed; but an understanding of the quantitative method, and training in accuracy and exact observations, are an essential part of the course.

It is preferable that the middle school course in physics should precede the course in chemistry.

The scope and general method of treatment of the course may be learned by consulting one of the following commonly used texts:—

Black and Conant— Practical Chemistry, with
Black— Laboratory Experiments in Chemistry.

McPherson and Henderson— Elementary Study of Chemistry, with
McPherson and Henderson— Exercises in Chemistry.

McPherson and Henderson— Chemistry and its Uses, with
McPherson and Henderson— Exercises in Practical Chemistry.

Coulthard— First Book of Chemistry.

Physics. (6 to 10 units).

The requirement in Physics is a course in elementary Physical Measurements, which will give the student a working knowledge of:

1. Concepts in Physics such as length, area, volume, mass, weight, density, specific gravity, time, force, pressure, velocity, acceleration, work, efficiency, heat, temperature; the nature of coefficients such as expansion, friction, etc.; with the units in which each are measured.

2. Simple laws of reflection and refraction of light, formation of images by mirrors and lenses, using the ideas of elementary geometric optics.

3. The nature of periodic motion, using as illustrations pendulums, vibrating springs, water waves and sound waves; and familiarity with the terms period, wave length, amplitude, frequency.

4. The magnetic effects of electric currents and Ohm's Law, with simple applications.

The course should be built up about laboratory experiments performed by the individual student. These should aim to be mostly quantitative in nature. The student should know how to observe and record data in an intelligent way, as well as to be able to present his results clearly and, whenever possible, graphically.

The note-book record should clearly show the object of the experiment, the apparatus used, description of method with drawings, data as observed, and results and conclusions.

It is suggested that Stifler's "Exercises in Elementary Physics" be considered as indicating the minimum requirement.

Other texts suggested for reference are:—
Watson— Elementary Practical Physics.
Millikan, Gale, and Bishop— Laboratory Physics.
Shih Yien Chiao Cheng (Translation from Millikan and Gale's Laboratory Physics).
Carhart and Chute— Laboratory Physics.

Western History.

A. Pre-Historic Times.

I. Earliest Man.

1. Origin of animal and human life.
2. Dawn of civilization.
3. Stone Age; Bronze Age; Iron Age.

B. Historic Times.

I. The Ancient Period.

1. A brief study of the histories of Egypt, Phoenicia, Judea, Babylon, Assyria and Persia; emphasizing the outstanding features of their several cultures.
2. The History of Greece, Macedonia and the Roman Empire, placing special emphasis upon the factors contributing to the development of the Middle Ages.

II. The Mediaeval Period.

1. The Teutonic invasions; the decline of the Roman state and culture; the beginnings of new European states.
2. Mohammedanism; conflict between Christianity and Mohammedanism.
3. Feudalism; origin, decline, value.
4. Development and spread of Christianity; the crusades; the origin, growth and power of the Papacy; conflict between Church and State; the Reformation and Counter-Reformation; religious wars.
5. The Renaissance; the age of discoveries (America).
6. Political development in the leading countries of Europe.

III. The Modern Period.

a) To 1914.

1. England; revolutions; colonial and commercial policy; growth of modern democracy.
2. France; Louis XIV; French Revolution; rise and fall of Napoleon; revolutions of 1830 and 1848; recent development.
3. Spain; loss of the Netherlands; decline.
4. Russia; Peter the Great; wars with Turkey; Congress of Berlin.
5. Rise of Prussia; Frederick the Great; Partition of Poland; war with Austria.
6. Unification of Germany and Italy; Bismark and Cavour.
7. The United States; war of Independence; slavery and Civil War; later political development.
8. South America; a brief general survey.

b) Since 1914.

1. The Great War; causes and effects.
2. Versailles Treaty; territorial changes.
3. International organizations; League of Nations, the International Labor Organization and the International Court of Justice.
4. The Washington Conference; attempt at limitation of armaments.

The following text-books are recommended:

1. For Pre-Historic Times:
   新學制高級中學西洋史(商務印書館).
2. For the Ancient, Mediaeval, and Modern Periods:
   新學制高級中學西洋史(商務印書館); 共和國教科書西洋史(商務印書館); 中華書局之西洋史; 新著世界史(商務印書館).
3. For the Latest Period:
   新著西洋近百年史(商務印書館); 新著世界史(商務印書館).

NOTE:—For the benefit of the schools that wish to do the work in English we would recommend the use of "A First Book of World History" by F. J. C. Hearnshaw (Macmillan and Co. London. 1924. Pages IX: 194). Although the title suggests that this is a General History, it really is a first book of Western History.

4. ADMISSION TO SCHOOL OF THEOLOGY.

Candidates are required to present an Application for Entrance, made on the blank forms furnished by the University, which will be supplied by the Director of Admissions or the Dean of the School of Theology. This application form must be made out in full, including formal application for admission, a certified statement of the scholastic work done, a medical certificate, and a recommendation from the Church or Mission to which the candidate belongs. The Application must be returned to the University at least one month before the time set for the examinations. Women are admitted to the School of Theology on the same conditions as men students.

Conditions of Admission:

1. Graduates of the School of Arts and Science, or of other recognized institutions of the same grade, are admitted without examination.
2. Other applicants for admission to the School of Theology must have completed a six-year middle school course or the Sub-Freshman year in a recognized institution of college grade, and at least the Freshman Year of the School of Arts and Science, or must pass an examination in the subjects specified in the above courses.
3. Applicants who are unable to meet the conditions outlined above, but who have special experience in Christian service, or exceptional qualifications, may be received, after examination by the Faculty as to their fitness to take the course, as special students, and on graduation will receive a certificate as evidence of work done.
4. The School welcomes graduates of theological schools, whether pastors or preachers, who may desire to enter for a short period of study after some years of active work.

5. ADMISSION TO SCHOOL OF MEDICINE.

For admission to the Medical School the following qualifications are required:—

(a) The candidate must have graduated from a six-year middle school or have done equivalent work. For standards as to work which should be covered in the middle school, see the "Syllabus of Middle School Subjects", pages 40—47.

(b) Following graduation from middle school, the candidate must have done two years work in a recognised institution of college grade, including a minimum amount of work in the various subjects as shown by the schedule of Entrance Requirements included below. These courses may be taken in the Pre-Medical Department of Shantung Christian University, for admission to which see pages 37 to 47. The Pre-Medical course of study may also be taken in other institutions of suitable grade, provided the requisite amount of laboratory work is devoted to each subject. In all cases, however, graduates of Pre-Medical courses, *either of this or other universities,* will be required to present themselves for the entrance examination of the School of Medicine at the conclusion of the Pre-Medical work.

To be admitted to the examination a candidate must (1) bring evidence that he has graduated from an approved Middle School or has done equivalent work; (2) bring evidence from the college where the pre-medical work was done as to good character, and that the subjects specified below have been covered; this should include the courses studied, the time occupied in each subject and the grades secured; (3) submit laboratory note-books, signed by the instructor, for the Biology, Chemistry and Physics courses.

Entrance Requirements.

Biology: One paper.

Prerequisite: At least one year of college grade work in General Biology and a year's work in General Zoology. This should include not less than four *credit hours of recitation and lecture and of six actual hours of laboratory and field work a week, for the two years.

The work as conducted at Shantung Christian University is based on:

First Year: Shull, Principles of Animal Biology, McGraw Hill Book Co.
Woodruff, Foundation of Biology, Macmillan Co.

Second Year: Thomson's Outlines of Zoology, Hodder and Stoughton.
Reese, Introduction to Vertebrate Embryology, Frog only. G. P. Putnam. Translation: Presb. Mission Press.
Pratt, Vertebrate Zoology, [Sections on the dogfish, frog, turtle, bird and mammal, especially the latter]. Ginn and Co.

Physics: One paper.

Prerequisite: A course of general physics of college grade extending over a period of at least two hundred and fifty hours. Of this a minimum of one hundred and twenty-five hours must be spent in the laboratory, doing individual work and receiving individual instruction.

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*A 'credit hour' is one hour a week in recitation or lecture, or two hours a week in laboratory, over a term of eighteen weeks.

In general, it is suggested that the work covered in the laboratory should follow Millikan's "Mechanics, Molecular Physics and Heat" and Millikan and Mill's "Electricity, Light and Sound".

For general reading and lectures, Kimball's "College Physics" and Millikan and Gale's "First Course in Physics" is suggested.

Chemistry: One paper.

Prerequisite: Four terms of laboratory work, covering General Chemistry, Qualitative and Quantitative Analysis, Organic Chemistry. The aim of the work in Chemistry should be to train the student to think in terms of modern chemical concepts and to familiarize him with methods of laboratory study.

The total requirement in Chemistry is reckoned as a minimum of 450 hours work. It is suggested the Pre-medical Chemistry pursue the method and cover the ground represented in the following texts:—

McPherson and Henderson: General Chemistry.
McPherson and Henderson: Laboratory Manual.
Noyes: Qualitative Chemical Analysis (metals only).
Chapin: Second Year College Chemistry.
Chapin: Exercises in Second Year Chemistry.
Talbot: Quantitative Chemical Analysis (selections from this text).
Cohen: Theoretical Organic Chemistry.
Fisher: Laboratory Manual of Organic Chemistry (shorter course).

Psychology: One paper.

Prerequisite: Lectures, one course equivalent to four semester hours.
Examination Syllabus: Based on Buell's "Essentials of Psychology" or its equivalent.

Chinese. Students are expected to have studied Mei Dzi 墨子 and Chinese Composition (Mandarin).

One examination will be held in Wen Li Composition which paper will be set to test their fluency and neatness in the literary style. Compositions must contain at least three hundred and fifty characters and the subject will be selected from the work studies as stated above.

English Requirements. A student should have school credits for six full years of English study. The examination is a test of his ability to use English correctly rather than a test of his knowledge of the rules of grammar, composition, etc.

A Physical Examination is required of all applicants for admission, and admission may be refused on the basis of ill health. Provision is made for the medical care of students during their residence in the school.

Advanced Standing. At the discretion of the Faculty, students from other medical schools of recognized standing will be received into the upper classes of the Medical School upon the following conditions:—

1. That they present evidence of having fulfilled the entrance requirements, and of having spent as many years in medical study as they desire credit for.

2. That they pass examinations in the subjects for which they desire advanced standing.

UNIVERSITY FEES AND DEPOSITS.

The revised schedule of University Fees and Deposits, due at the beginning of each semester, in local currency, is as follows:—

TUITION:

Arts and Science—Arts and Science Courses	$25	per semester
Pre-Theological Course	10	" "
Pre-Medical Course	30	" "
Theology	10	" "
Medicine	30	" "
ATHLETIC:—All Schools	$2	" "
DORMITORY:—All Schools	$5	" "

BREAKAGE DEPOSITS—GENERAL AND LABORATORY:

Arts and Science—Arts and Science Courses	$3	annually, payable in fall
Pre-Theological Course	3	" "
Pre-Medical Course	8	" "
*Chemistry and Physics Laboratory	3	" "
†Light Deposit	4	" "
Theology	1	" "
Medicine	5	" "
KEY DEPOSIT:—Arts and Theological Schools	$1	returnable on return of key

DEPOSITS FOR BOARD:

Arts and Theology (to Treasurer)	$22	per semester
Medicine (to Students' Committee) (approx.)	30	" "

No refunds of fees are to be made after the first fortnight of each semester, except by special approval of the Dean.

A ruling of the University provides that fees may be raised at any time at the discretion of the Field Board of Managers.

Student Trips. Occasional trips for students to points of interest and instruction have been arranged. These have been conducted personally by members of the faculty. The cost of the same have been paid in part or entirely by the students themselves. At all times such trips are entirely optional, and students are at liberty to refrain from participating in them if they feel they cannot afford them.

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*Additional deposit to be paid only by students in the Arts and Science Course majoring in Chemistry and Physics.

†Deposit to be made by all Arts and Science students, to be checked pro rata for any excess of light used above the allowance provided in the University budget. (In effect from Sept. 1, 1925).

STUDENT EXPENSES.

The tables below furnish estimates of the annual expenses of a student in the different Schools of the University. Travel and vacation expenses are not included. Some students by bringing clothing from home make this item lower than what is given below. Men and women students in the same School and Course have approximately the same expenses.

School of Arts and Science.

ARTS, SCIENCE, AND EDUCATION COURSES.

	Low	Average	High
Tuition	$50	$50	$50
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Light Deposit	4	4	4
Breakage Deposit	3	3	3
Laboratory Fee	3	3	3
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	15	25	50
Clothing	24	35	70
Contributions	3	5	8
Miscellaneous	10	25	40
TOTAL	$171	$209	$287

PRE-THEOLOGICAL COURSE.

Student expenses in this Course will approximate the lowest column given above, with the exception of tuition which is $20. Thus the total yearly expense will vary from $141 up.

PRE-MEDICAL COURSE.

	Low	Average	High
Tuition	$60	$60	$60
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Deposit & Laboratory Fee	8	8	8
Light Deposit	4	4	4
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	20	35	44
Clothing	24	35	60
Contributions	3	5	70
Miscellaneous	10	30	8
TOTAL	$188	$236	45 $314

School of Theology.

	Low	Average	High
Tuition	$20	$20	$20
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Deposit	1	1	1
Key Deposit	1	1	1
Board	44	44	44
Books and Stationery	8	12	25
Clothing	24	30	40
Contributions	3	5	8
Miscellaneous	4	20	40
TOTAL	$119	$148	$193

School of Medicine.

	Low	Average	High
Tuition	$60	$60	$60
Athletic Fee	4	4	4
Dormitory Fee	10	10	10
Breakage Fee	5	5	5
Laboratory Expense	12	15	20
Board	60	60	60
Books and Stationery	40	50	75
Clothing	30	50	70
Contributions	7	11	15
Miscellaneous	13	30	50
TOTAL	$241	$295	$369

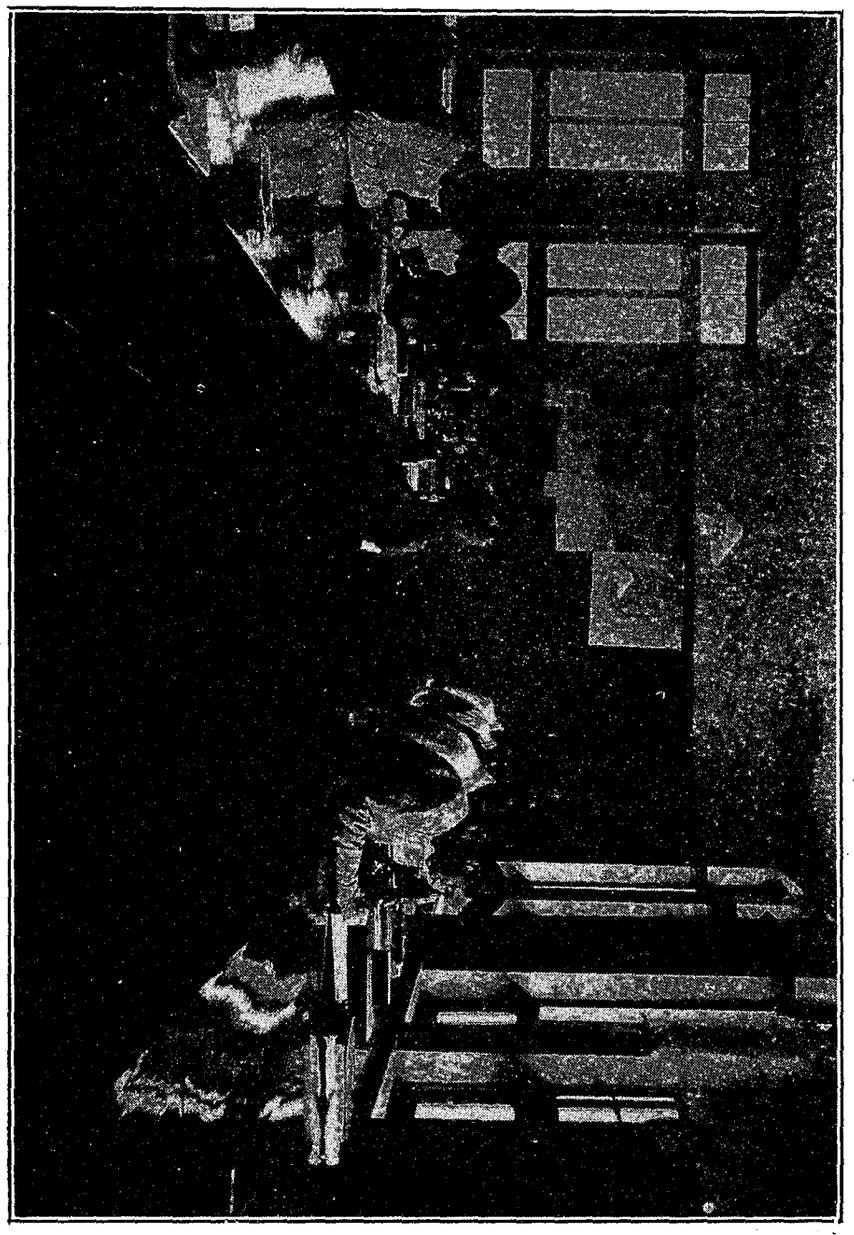
Self-Support of Students.

A few students find it possible to earn part of their expenses while attending the University. These are usually junior or senior students who can secure position as tutors and part time teachers in the city, or as assistants in various departments and laboratories in the University. No student should come to the University expecting to earn part of his way without first making sure that he can find a position. Students earning part of their expenses should not plan to undertake the full number of units of study during the semesters in which they are doing this outside work, and should expect to spend more than the usual number of years in residence.

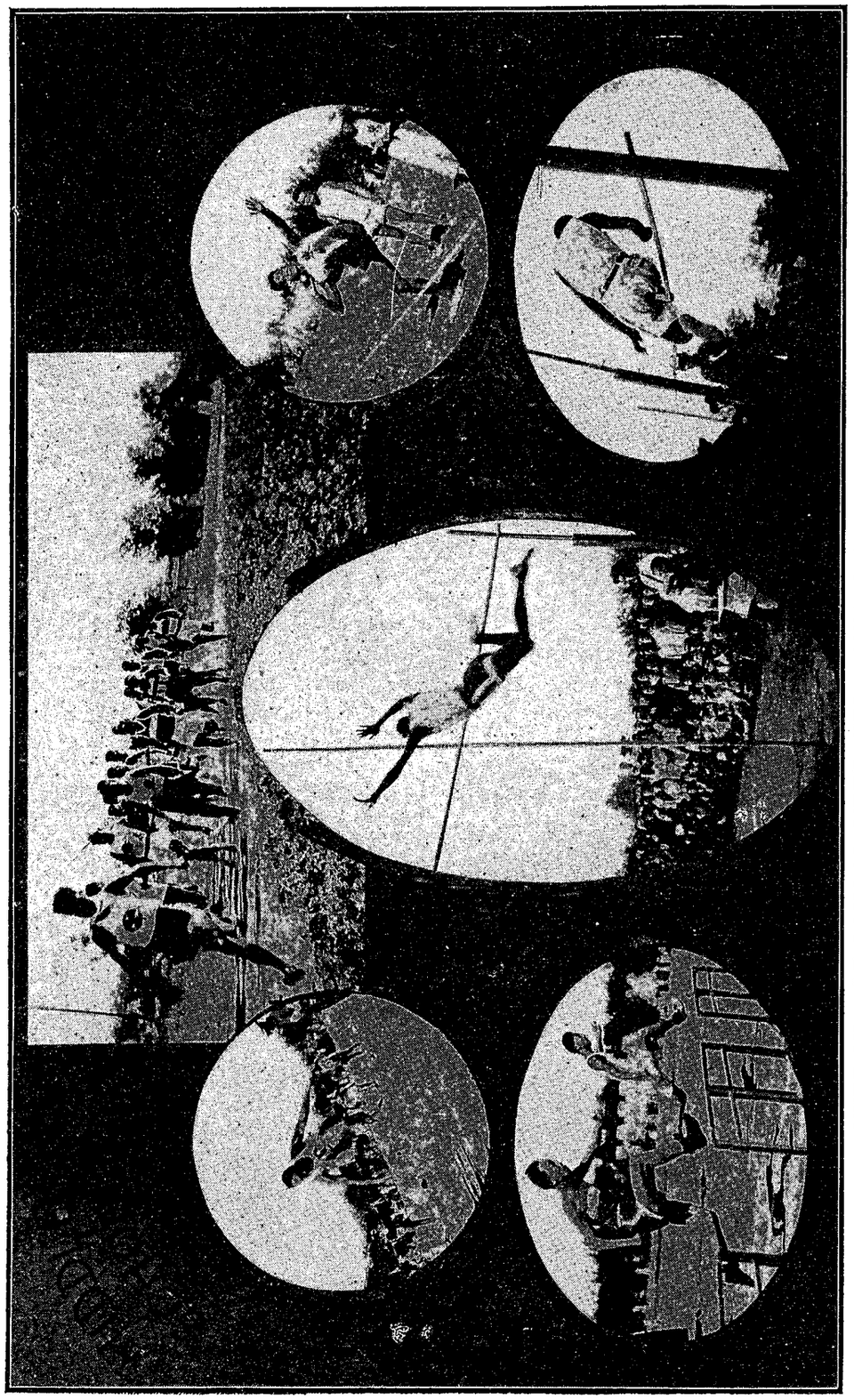
BULLETINS OF INFORMATION.

The following Bulletins are published by the University, and may be obtained by application to the Registrar of Shantung Christian University:—

Bulletin No. 37. School of Medicine (English).
(No number) School of Medicine (Chinese).
Bulletin No. 39. School of Theology (English).
Bulletin No. 43. Entrance Regulations (Chinese).
Bulletin No. 45. Entrance Regulations (English).
Bulletin No. 46. School of Arts and Science (English).
Bulletin No. 48. School of Arts and Science (Chinese) (in preparation).



A LABORATORY CLASS



INTER-MIDDLE-SCHOOL MEET, HELD ANNUALLY BY THE UNIVERSITY

SCHOOL OF ARTS AND SCIENCE

COURSES OF STUDY

The School of Arts and Science offers an Arts and Science Course of four years, a Pre-Medical Course of two years, a Pre-Theological Course of one year, and a Sub-Freshman Course of one year. The Sub-Freshman Course will be discontinued after the year 1925-26 and its studies will be given in the University Middle School. For regulations regarding the entrance requirements see pages 33 to 47.

1. Pre-Medical, Pre-Theological, and Sub-Freshman Courses.

The Courses of Study in the Pre-Medical, Pre-Theological, and Sub-Freshman classes are prescribed. These courses are as follows:

Sub-Freshman Course.

First Semester	Semester hours*	Second Semester	Semester hours*
Religious Instruction	2	Religious Instruction	2
Chinese Lit. and Essay	3	Chinese Lit. and Essay	3
Chinese History	2	Chinese History	2
English	5	English	5
Mathematics	4	Western History	4
Physics	4	Chemistry	4
	20		20

Pre-Medical Course.

First Year.

First Semester		Second Semester	
Biology 1a	3	Biology 1b	3
Chemistry	3	Chemistry 4	5
Chinese	2	Chinese	2
English	4	English	4
Physics 1	4	Physics 2	4
Psychology 1	2	Religious Instruction	2
Religious Instruction	2		20
	20		

Second Year.

First Semester		Second Semester	
Biology 11	3	Biology 18	3
Chemistry 5	6	Chemistry 8	6
Chinese	2	Chinese	2
English	5	English	5
Physics 3	4	Physics 4	4
	20		20

*For definition of the semester hour of credit, see page 58.

Pre-Theological Course.

First Semester		Second Semester	
Religious Instruction	2	Religious Instruction	2
General Biology	2	General Biology	2
General Psychology	2	General Psychology	2
Sociology	4	Western History	4
English	4	English	4
Chinese Lit. and Essay	2	Chinese Lit. and Essay	2
	16		16

2. The Arts and Science Course.

General Plan of Course. The work in the Arts and Science Course is partly prescribed and partly elective. All students are required to take a certain amount of work in Chinese, in English, and in Religious Instruction. Other courses are elective, but with restrictions as to major and minor subjects. The courses of study are arranged in three groups as follows:

I. Natural Science.	II. Social Science.	III. Literature and Language.
Astronomy	Economics	
Biology	Education	Chinese
Chemistry	History	English
Mathematics	Political Science	
Physics	Psychology	
	Religious Education	
	Sociology	

Study Requirements. The study requirements for the four years of work may be stated as follows:

	Semester hours	
Required Courses:—Chinese	16	
English	24	
Religious Instruction	8	
Total of Required Courses		48
Majors and Minors:—1 Major Subject	24	
1 Minor in Education	12	
1 Additional Minor	12	
Total for Majors and Minors		48
Elective Courses		32
Total Requirements for Four Years		128

This total of 128 semester hours of credit required in order to graduate gives the student an average of 16 semester hours of study each semester. This is the amount of work carried by the average student. In special cases permission may be granted by the Dean for a student to take as many as 18 semester hours in one semester, but this will be done only on specific recommendation of the Student Advisor.

Major and Minor Subjects. Majors are offered in Chinese, Education, English, History-Political Science, Mathematics-Astronomy, Natural Science, and Sociology-Economics. A Major Subject must be chosen by each student before entering upon the first year's work. The instructor in charge of this major subject will act as the student's Advisor. The student will also select two minor subjects, one of which must be in the same group of courses as his major subject, and the other must be in Education.

Petitions to change the major subject will be granted when approved by the Student Advisors concerned and by the Dean. The student will be required to fulfill all the requirements of the new major subject.

Courses in Other Schools. Students registering in one School may also elect courses in the other Schools of the University, and will receive credit for these courses. However, courses taken in other Schools must not total more than one-third of the full number of units of credit required for graduation.

English Requirements. Much of the work in the School of Arts and Science is essentially bi-lingual, both English and Chinese being used as media of instruction. A reading knowledge of English is presupposed of all students, while some courses are given entirely in English. The requirement of 24 semester hours of study in English may be waived in part or in whole in the case of students who have reached a standard in English three years above that required for entrance. The determination of the standard reached by any given student shall be made by the Department of English.

3. General Regulations.

Selection and Change of Course. After registration (for regulations governing registration see page 36) the student will make out a Course Card with the assistance of the Student Advisor, and after

securing his approval will present it to each instructor for enrolment in the class. Whether a student is qualified for entrance into a particular class is a question to be decided by the instructor in charge.

A student desiring to drop a subject once taken up, or to take up a new subject after the course card has been filed, must secure the permission of his Student Advisor and of the Dean and of the instructors concerned.

The Semester Hour of Credit. The Unit of Study for which credit is given is the Semester Hour, which is understood to represent approximately one class period per week throughout one semester. Each of these class periods should require two hours of preparation, or subsequent reading or study. Courses of study which require less preparation will have a proportionate decrease in the amount of credit allowed. From two to three periods of laboratory work per week during one semester will receive in general one semester hour of credit.

Scholarship Grades. In reporting the standing of students at the end of each semester, the following grades are used:—A, B, C, and C—, the passing grades, corresponding in a general way to the terms 'excellent', 'good', 'fair', and 'pass'; D, meaning 'conditioned'; and E, meaning 'failed'. In grading classes, A is considered normally applicable to 1%-5% of the class, B to 20%-25%, C to 45%-50%, C— to 18%-25%, D to 5%-10%, and E to 1%-3%. This distribution of grades is advisory, and is understood to admit of a certain degree of flexibility, especially in the handling of small classes.

Conditions. A student conditioned in any subject must remove the deficiency within one calendar year or the work will be considered a failure. A condition may be removed by a re-examination, which may take place at the time of the regular examination or at a time set by the instructor concerned. Re-examinations at a special time are subject to a fee of $2.00. When a condition is removed only a pass grade ('C—') will be given. Only one re-examination to remove a condition is permitted— a failure in this constitutes a failure in the subject. The student must take the initiative in removing a condition.

Failures. A failure may be removed only by repeating the subject. Considering two semester hours of credit which are conditioned as being the equivalent of one semester hour of credit which is failed, a student who receives in any one semester the equivalent of eight

semester hours of credit conditioned will not be allowed to remove these conditions by re-examination, but must repeat the subjects concerned in order to receive credit for them.

A student who misses more than three weeks of a semester will be required to repeat the work of that semester.

Probation and Disqualification. Any student (with exception noted below) who receives in any one semester the equivalent of sixteen semester hours of credit conditioned will be disqualified for further attendance at the University. However, a first year student who receives in the first semester the equivalent of more than fifteen and less than twenty semester hours of credit conditioned will be placed on probation for the following semester. If in the following semester the student does not make satisfactory progress in his studies, he will be disqualified for further attendance at the University.

Any student thus disqualified may be reinstated only after one year, and only by specific action of the Arts faculty.

DESCRIPTION OF COURSES

IN THE

SCHOOL OF ARTS AND SCIENCE

The courses offered in the school of Arts and Science are grouped under the following subjects:

Astronomy	Economics	Physics
Biology	Education	Political Science
Chemistry	English	Psychology
Chinese History	History	Religious Instruction
Chinese Literature	Mathematics	Sociology

All courses are represented as one semester in length. Courses having odd numbers are offered in the Autum Semester, those having even numbers are offered in the Spring Semester. In cases where a course may be offered in either semester, alternative numbers are given. The number of semester hours of credit for each course (for definition of credit hour see page 58) is indicated by a figure in parentheses, thus: (4).

ASTRONOMY

(See Mathematics)

BIOLOGY

Arthur Paul Jacot, A. B., Associate Professor, Head of Department.

Ch'in Yao T'ing, (S. C. U.) Associate Professor.

K'an Hsing Wei, B. S., Assistant Instructor.

The aim of the courses is two-fold. First, they aim to induce the student to think for himself, acquire self-reliance and develop his initiative, and teach him to think and work systematically—thus preparing him for positions of responsibility and advanced work. Second, they aim to develop in the student a sympathetic understanding of, and feeling for, the life about him. With this point of view the student is better able to understand man's relation to the forms of life about him, and consequently is able to intelligently control his environment.

The course work is arranged to meet three needs: pre-medical, teacher-training, and training for advanced work in biological survey. All students taking work in this department are expected to take the general course on the principles of biology. Pre-medical students then take courses 11 and 18. Other students may elect courses which best fit their individual needs. The majority of courses are systematic and ecologic.

Laboratory periods are of three hours duration.

BIOLOGY 1a and 1b. **General Biology.** This course consists of a series of studies on the fundamental principles of life, or those factors which act upon and have built up life forms as they are. Continues throughout the year. (4, 4)

(Students who have not had general biology in the middle school will be expected to take an extra hour of lecture work per week).

BIOLOGY 3. **Civic Biology.** This course is for students specializing in education, It includes the material and represents the type of course which they will teach in the middle schools. Special emphasis is placed on collection and preparation of material and care of vivarium.

Prerequisite: Biology 1. (3)

BIOLOGY 11. **Invertebrate Zoology.** This course aims to give the student a knowledge of the structure and phylogenic relations of the invertebrate animals. The course consists of studies on increasing complexity of structure, body types, specialization of functions and habits and parasites of economic importance. It is not preeminently a pre-medical course, but a general culture course planned to deepen the students' background and knowledge of the animal kingdom.

Prerequisites: Biology 1, Chemistry 2 and 3. (3)

BIOLOGY 12. **General Botany.** The first course in botany will be a continuation of middle school botany studying the physiology, morphology, and histology of the plant body with special emphasis on types and adaptations.

Prerequisites: Biology 1 and 11, and Chemistry 2 and 3. (3)

BIOLOGY 18. **Vertebrate Zoology.** This course is especially designed for pre-medical students, the laboratory work consisting of dissection and detailed study of types of vertebrate animals as *Amphioxus*, the shark, the frog, the turtle, the bird, and the mammal. The work begins with a study of the embryological development of the chick.

Prerequisite: Biology 11. (3)

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The following courses will be conducted in English. For admission to them, students should have completed at least two years of college-grade English.

BIOLOGY 22. **Systematic Botany.** Studies of typical plants representing the more general groups of spermatophytes, including characteristics, phylogenic relationships, and groups of economic importance. Field trips for the purpose of studying the local flora and identification of spring flora.

Prerequisite: Biology 12. (3)

BIOLOGY 24. **Non-Marine Algae.** Systematic and ecological study of the local flora.

Prerequisite: Biology 22. (3)

BIOLOGY 27. **Phytogeography.** Studies and problems of geographic distribution of groups and species of plants in the Holarctic zone with special reference to groups of economic importance.

Prerequisite: Biology 22. (3)

BIOLOGY 28. **Plant Ecology.** Studies and problems in relationships of plants to their habitat and to each other, successions, etc., with the application of these principles in agriculture and economic biology. Detailed work on local formations, associations, and communities.

Prerequisite: Biology 27. (3)

BIOLOGY 31. **General Entomology.** Lectures on the characteristics of orders, sub-orders, life histories, interrelationships, crop and tree pests, and methods of control. Laboratory work includes work on insect anatomy and familiarization with larval forms of pest insects.

Prerequisites: Biology 12. (4)

BIOLOGY 32. **Systematic Entomology.** A continuation of Biology 31. Lectures on principles of classification and nomenclature, the important families with illustrations from insects of economic importance, adaptations, protective coloration, structures and habits, convergence, ecology and geographical distribution. Laboratory work includes special studies on wing veination, identification of 100 insects, and methods of collecting and preserving.

Prerequisite: Biology 31. (4)

BIOLOGY 33. **Systematic Vertebrate Zoology.** Our larger friends and neighbors, their phylogenic characteristics and relationships, life habits, and their relations to man and their environment. Lectures dealing with principles of classification and nomenclature, structural modifications, life histories and habits, protective coloration, structures and habits, adaptations, convergence, reproduction. Laboratory study of the parts employed in classification, and identification of the vertebrate animals of Shantung and North China.

Prerequiste: Biology 12. (4)

BIOLOGY 34. **Systematic Invertebrate Zoology.** Similar to Biology 33 but restricted to the invertebrate metazoa.

Prerequisite: Biology 12. (4)

BIOLOGY 35. **Protista.** Similar to Biology 33 but restricted to the protozoa and algae.

Prerequisite: Biology 12. (4)

BIOLOGY 38. **Paleozoology.** The trend of life through time and space, with special reference to the derivation of the fauna of China. Trips to the fossiliferous areas of Shantung and identification of fossils found.

Prerequisites: Biology 33 and 34. (4)

BIOLOGY 39. **Advanced Systematic Zoology.** Special systematic work on any one group of animals. Hours and credit to be arranged.

BIOLOGY 41 or 42. **Ecology.** Studies and problems in interrelationships of plants and animals and their environment, with the application of these principles in agriculture and economic biology. Detailed work in adaptation and adjustment, parasitism and predaceousness, formation of associations and communities, etc.

Prerequisites: Biology 22, 32 to 35. Hours and credit to be arranged.

BIOLOGY 43 or 44. **Limnology.** A study of fresh water life, conducted along the lines of Biology 41 but with special reference to aqui-culture.

Prerequisites: Biology 22, 32 to 35. Hours and credit to be arranged.

BIOLOGY 45 or 46. **Biogeography.** Studies and problems in geographical distribution of groups of plants and animals in the Holarctic zone with special reference to groups of economic importance. Includes the subjects of migration, centers of distribution, climates, land masses and barriers.

Prerequisites: Biology 38 and 41. Hours and credit to be arranged.

BIOLOGY 47. **Marine Ecology.** Special problems, to be worked out during the summer at Tsingtao or other places along the coast.

Prerequisite: Biology 41. Summer Course.

CHEMISTRY.

William Henry Adolph, Ph. D., Professor, Head of Department.
Wang Chi-Chei, B. Sc., Associate Professor.
Dzang Hwei-Chuen, Instructor.
Wang Li-Ch'ien, Assistant.

The courses in chemistry are arranged for pre-medical students and for the training of college and middle school teachers of science. The attempt is made to train the student in the use of the laboratory method rather than to give him a knowledge of chemical technology. The laboratories occupy the ground floor of Bergen Hall and are equipped to fill these needs. Special advanced work, not indicated in the following courses, is provided for individual students who desire to specialize in analytical and physical chemistry. College graduates may be admitted for special research work.

Before entering upon Chemistry 3, the student is presumed to have had an introductory laboratory course in the senior middle school covering the elements of descriptive chemistry. The scope of this elementary course is covered by Chemistry 2, below.

CHEMISTRY 1. **Air, Water, and Food.** A popular study of the applications of chemistry to every-day life. Lectures, demonstrations, with no laboratory work; assigned readings, reports on current scientific problems of home and community. For non-science students. (2)

Textbook—Bailey: Sanitary and Applied Chemistry.

CHEMISTRY 2. **Elementary Chemistry.** An introduction to laboratory methods in chemistry. A study is made of the more common elements and of general principles. Chemistry is presented as a means of interpreting the problems of every-day life. College credit is not given for this course. (4)

Prerequisite—Elementary Physics.

Textbook—Adolph and Tsao: Introductory Chemistry.

CHEMISTRY 3. **General Inorganic Chemistry.** Fundamental conceptions of chemistry; laboratory work accompanied by class conferences, developing the ideas of equilibrium, dissociation, solutions, etc., type study of the non-metals; constant use of the quantitative method. (3)

Prerequisite—Chemistry 2, or Entrance Chemistry.

Textbok—Tsao and Adolph: 近世無機化學.
Adolph and Dzang: 無機化學實驗教科書.

CHEMISTRY 3a. **General Inorganic Chemistry.** For students who do not have entrance credit in chemistry. This course is essentially a combination of courses 2 and 3. (5)

CHEMISTRY 4. **General Inorganic Chemistry.** E. M. F. series; colloids; study of important groups of the metals. The latter part of the course is devoted to qualitative analysis, with methods of separation, accompanied by class conferences, developing the theory of reaction, and solutions. (5)

Prerequisite—Chemistry 3.

Textbooks—Tsao and Adolph: 近世無機化學.

Adolph and Dzang: 無機化學實驗教科書.

Noyes: Qualitative Chemical Analysis.

CHEMISTRY 5. **Quantitative Analysis.** This is a course developing the concepts of modern physical chemistry, with quantitative measurements in the laboratory. The viewpoint of the kinetic theory is emphasized; a thorough study of solutions and equilibrium, drill in representative gravimetric and volumetric procedures, the theory of indicators, a study of hydrogen ion measurement, are included. (6)

Prerequisite: Chemistry 4.

Textbooks—Chapin: Second Year College Chemistry.

Chapin: Exercises in Second Year Chemistry.

Talbot: Quantitative Chemical Analysis.

CHEMISTRY 7. **Quantitative Analysis.** Review of practical problems in qualitative analysis. Advanced quantitative methods; analysis of alloys and minerals; electro-analysis; application of physical chemistry methods to precision analysis. (4)

Prerequisite: Chemistry 5.

Textbook—Talbot: Quantitative Chemical Analysis.

CHEMISTRY 8. **Organic Chemistry.** Elementary course; a survey of the more important compounds of the aliphatic series, with a briefer treatment of the aromatic compounds; laboratory study of type organic reactions, with principles of qualitative organic analysis. (6)

Prerequisite: Chemistry 5.

Textbooks—Cohen: Theoretical Organic Chemistry.

Fisher-Payne: 有機化學實驗教科書.

CHEMISTRY 9. **Organic Chemistry.** Laboratory preparation of some of the more complex organic compounds; a survey of those groups of compounds which have application in the industries; emphasis on dyes and dyestuffs. (4)

CHEMISTRY 10. **Applied Chemistry.** A study of the industries of Shantung, and the application of scientific methods to industry. Laboratory examination of fuels, oils, and commercial products; water analysis; analysis of ores. Reports, and visits to industrial plants. (4)

Prerequisites: Chemistry 5 and 8.

CHEMISTRY 11. **Physical Chemistry.** A study of theoretical principles and practice in the methods of physical chemistry; solutions; phase rule, thermo-chemistry, polarimetry, electro-chemistry,conductivity.

Prerequisites: Chemistry 7 and 8. (4)

CHEMISTRY 12. **Foods and Nutrition.** Study of the principles of nutrition and metabolism; food analysis; elements of bio-chemistry. (4)

Prerequisites: Chemistry 5 and 8.

Textbook—Sherman: Chemistry of Food and Nutrition.

CHINESE LITERATURE AND HISTORY

Chou Kan-T'ing, Associate Professor, Head of Department.
Chang Hsiao-Fan, Assistant Instructor.
Luan T'iao-Fu, Assistant Instructor.

1. CHINESE LITERATURE

CHINESE LITERATURE 1 and 2. **Study of Chinese Characters.** The course explains the transformation of the Chinese characters from ancient times until the present. Use will be made of Tuan and Wang's "Elementary Survey of Characters". (2, 2)

CHINESE LITERATURE 3 and 4. **Chinese Classics.** In these courses and Literature 7 and 8 the following classics will be studied:—"Shih Ching", "Shu Ching", "Chen Li", "Tso Chuan", "Kung Yang", and "Ku Liang". (4, 4)

CHINESE LITERATURE 5 and 6. **Ancient and Modern Poems.** Study will be made of such textbooks as "Collection of T'ao Yuan Ming's Poems", "Collection of Tu Kung Pu's Poems", "Collection of Pai Chu I's Poems", "Collection of Yuan Chih Chai's Poems", and also the writings of other more modern poets. (2, 2)

CHINESE LITERATURE 7 and 8. **Chinese Classics.** A continuation of the study of classics begun in courses 3 and 4. (4, 4)

CHINESE LITERATURE 9. **Ancient and Modern Ballads.** A study of "The Ballads of Sixty-one Poets", "Collection of Ballads about Flowers", and "Selections from Chang Hui Yen's Writings". (2)

CHINESE LITERATURE 10. **Study of Selected Dramas.** Four popular dramas will be studied:—"Hsi Hsiang Chi" (西廂記), "P'i Pa Chi" (琵琶記), "T'ao Hua Shan" (桃花扇), and "Ch'ang Sheng Tien" (長生殿). (2)

CHINESE LITERATURE 11 and 12. **History of Drama.** Discussion of the changes made in the various dynasties, and their relationship to literature. Textbook:—Wang Kuo Wei, "History of Drama in Sung and Yuan Dynasty". (2, 2)

CHINESE LITERTURE 21 and 22. **Story Writing.** Use will be made of the text by Liang Kung, of the Middle School of Southeastern University. (2, 2)

CHINESE LITERATURE 23. **Selected Stories.** (2)

CHINESE LITERATURE 24 and 25. **Journalism.** Use will be made of the text by Chin Chen Ch'ing "Practical Advanced Journalism". (2, 2)

CHINESE LITERATURE 26. **Practical Letter-writing.** Social letters, business letters, preparation of documents, etc. (2)

CHINESE LITERATURE 27 and 28. **History of Chinese Literature.** (4, 4)

CHINESE LITERATURE 29. **Chinese Official Documents.** Preparation of commands, orders, petitions, and other official letters to or from governmental offices.

CHINESE LITERATURE 31 and 32. **Chinese Philosophy.** Lectures, 新編墨子講義以及老莊荀列等等. (2, 2)

CHINESE LITERATURE 33 and 34. **Literature in Ch'ing Dynasty.** (2, 2)

2. CHINESE HISTORY

CHINESE HISTORY 1. **Ch'ing Dynasty.** Detailed study of the political, educational, industrial, literary, and military activities of China during the two hundred eighty years between the reign of Shun Chih and the reign of Hsuan T'ung. (2)

CHINESE HISTORY 2. **The Republic of China.** The underlying causes of the Revolution; the establishment of the Republic; the struggles taking place during and after the establishment of the Republic. (2)

EDUCATION

Li Tien-Lu, M. A., Ph. D., Professor, Acting Head of Department.
Harold Frederick Smith, B. A., M. A., Associate Professor.
Frederick Seguier Drake, B. A., B. D., Associate Professor.
Bettice Alston Garside, B. A., M. A., Associate Professor.

The courses in education are offered primarily to meet the needs of the high percentage of students planning to teach in middle schools. Courses 1 or 2, 5, 7, and one of courses 25 to 32, or 42 to 46, are required of all students in the Arts and Science Courses in fulfillment of the minor in education. Twenty-four semester hours of credit in education are required of candidates for a certificate as teacher in middle schools. These should include Education 1, 5, 6, 7, and 9. Courses leading to a certificate in administration and supervision are offered to advanced students in education; and courses leading to a certificate as teacher in elementary schools will be offered when there is a demand for them.

EDUCATION 1. **Introduction to Teaching.** A general orienting course required of all freshmen. The meaning of education, objectives, the social point of view, introduction to the learning process, the child, the teacher, types and levels of teaching, the school system. The course is given in Chinese. A reading knowledge of English is desirable but not required. Smith (3)

EDUCATION 2. **Introduction to Teaching.** A repetition in the second semester of Education 1. Not offered unless there is a definite demand. Smith (3)

EDUCATION 4. **School Hygiene.** Play and playgrounds; buildings; light; seating; heat; ventilation; sanitation; community hygiene; physical and mental habits; health clubs; physical defects; the hygiene of instruction. The course is given in Chinese. Smith (3)

EDUCATION 5. **Educational Psychology.** The learning process. This course attempts to analyze the fundamental conceptions and facts relative to the learning process and to show the significance of the various mental functions in acquiring changes in the human beings. Li (4)

EDUCATION 6. **Educational Psychology.** Psychology of learning. This course treats of the Laws of Learning, economy of learning, transference of training, influence of work upon efficiency, etc. Education 6 is a continuation of Education 5, but may be taken separately. The courses are given in Chinese, but a reading knowledge of English is desirable. Li (4)

EDUCATION 7. **Teaching in Middle Schools.** Introductory; development and scope. The students,—a brief study of their special characteristics and problems. The curriculum,—an investigation of the curricula now in use, a discussion of how and where they should be improved, and a study of how best to use them. Teaching methods,—a brief discussion of method in its application the middle school. Discipline,—a study of the ends sought, and of the best methods of attaining them. Extra-curricular-activities,—their part in school life, and the teacher's share in them. The course is given in English and Chinese. Garside (4)

EDUCATION 9. **Observation, Participation, and Practice Teaching.** The course consists of carefully graded and supervised observation of teaching, participation in the work of the class-room, and practice teaching, together with a study of the technique of teaching. Each student will meet daily with his supervisor for the discussion of his work. Open only to junior and senior students. The course is given in Chinese. Drake (4)

EDUCATION 10. **Practice Teaching.** A continuation of Education 9, in the following semester. Drake (4)

EDUCATION 11. **Child Psychology.** This course is designed to present the facts concerning the nature and development of the mind during childhood, especially with reference to the meaning of these facts to the teacher. (4)

EDUCATION 18. **Rural Community Problems.** A study of the religious, social, and economic conditions in rural life in China. See courses of School of Theology, Pastoral Theology, Course 4. Lo (3)

EDUCATION 19. **The Rural School.** Problems and methods; the leadership of the teacher; community life, national and provincial agencies to be relied upon. The course is given in Chinese, but a reading knowledge of English is desirable. Smith (3)

EDUCATION 24. **Educational Measurements.** The place of measurememt in education; classification and construction of tests; instructions for and application of tests; scoring; conserving results. A limited amount of practical work in the administration, scoring, and interpretation of tests will be required. Education 1, 5, 6, 7 are prerequisites for this course. Instruction is given in Chinese and English. Garside (4)

EDUCATION 25. **The Teaching of Science.** A history of the development of science and science teaching, its aims and practices; the scientific attitude; the influence of science on human progress; the psychology of science study; a review of subject matter; the construction of courses in General Science, Biology, Physics, and Chemistry,—their relation to each other and to other courses; laboratories, equipment and methods; characteristic difficulties; texts; literature, sources of materials. The course is given in English. It is offered in alternate years,—next offered in 1926-27.

Garside, with the assistance of members of the science departments (2)

EDUCATION 26. **The Teaching of History.** A brief survey of the development of school instruction in history, and appraisal of existing systems of history teaching; aims and values; principles and practices in constructing a course; difficulties and methods; the use of maps, charts, pictures, and source materials; texts and literature. The class is conducted in English and Chinese in alternate years,—the class in 1926-27 being conducted in Chinese. Heeren and Chang (2)

EDUCATION 27. **The Teaching of Chinese.** A review of the subject matter available and a study of various methods of teaching. The course is given in Chinese. It is offered in alternate years,—next being given in 1926-27. Chou (2)

EDUCATION 28. **The Teaching of Mathematics.** The meaning of the teaching of mathematics; a review of subject matter; mathematics as the foundation for science study; mathematics and daily life;—mental stimulation, accuracy of thought, stimulus to student initiative and independence, and an exposition of the teacher's part in securing these values. The aim of mathematics; subject matter; sequence of courses and topics and their limits; correlated mathematics compared with distinct courses in mathematics; methods in mental and written mathematics; methods in algebra, geometry, and trigonometry; theoretical and practical mathematical problems; short methods; graphs; practical applications; use of tables; use of mathematical instruments; collateral study; a history of mathematics. The course is given in Chinese. It is given in alternate years, being next given in 1925-26. Wang (3)

EDUCATION 29. **The Teaching of English.** The development of aims and practices in teaching English; the psychology and principles of language study; phonetics; a review of subject matter; characteristic difficulties of Chinese students; texts; tests; the construction of a course. The course is given in English. It is given in alternate years, next being given in 1925-26, Baker (3)

EDUCATION 30. **The Teaching of Geography.** In this course, in that geography is not taught separately in the University, it is necessary to give a certain amount of content as well as of method. Hence the course will have for its first aim the formation of the fundamental conceptions of physical, economic and human geography. The chief phenomena will be illustrated by detailed study of regions, and there will be an attempt to give the students practice in first-hand geography, by practical surveys in the home-region. Emphasis will be laid upon such practical work as mapping and recording of weather observations. The course will close with a discussion of the methods of teaching geography in primary and middle schools. Drake (5)

EDUCATION 33. **The Administration and Supervision of Middle Schools.** The course of study; the daily program; the opening days; registration; records,—student and financial; selection of text books; classification of students; persistence in school; discipline; improvement of instruction; teachers' meetings; classroom supervision; intellectual and moral tone of the school; extra-curricular duties,—athletics, the assembly hall, dormitories, social functions, relations to the community; standards; making the most of equipment and supplies. A reading knowledge of English is required. Garside (4)

EDUCATION 38. **The Principles of Education.** An integrating course bringing together the details of theory and practice, and leaving the student with a unified body of educational doctrine. The definition of education; objectives; the nature of subject matter; the individual and society; educational values; formal discipline; liberal and

vocational education. The course is given in English and Chinese. It is open to advanced students only. This course alternates with Education 40. It is given in 1925-26. Smith (4)

EDUCATION 40. **The History of Education.** A brief survey of education from the earliest times to the 18th century; education from the 18th century to the present; nationalism and democracy in education. The Chinese educational situation. Open only to advanced students. The course is given in Chinese. It alternates with Education 38,—being given next in 1926-27. Smith (4)

EDUCATION 42. **Principles of Religious Education.** A general view of the principles of Religious Education, covering the purpose and the psychological background. Based on Coe's "A Social Theory of Religious Education", and "Education in Religion and Morals". Lo (3)

EDUCATION 43. **The Psychology of Adolescence, as Related to Religious Life.** A study of the psychology of "the 'teen age" and its moral and religious problems, and of the best methods for guiding students during this critical period. (2)

EDUCATION 44. **Problems of Adolescent Girls.** Especially adapted to China. Education 43 is a prerequisite. Based in part on Moxcey's "Girlhood and Character", and "Leadership in Girls' Activities". Miner (2)

EDUCATION 45. **Religious Education in Middle Schools.** The course also deals with the religious education of adolescents in Sunday Schools and Week-day Church Schools. The topics include the aims of religious education in middle schools, subject matter or curriculum, and a study of methods not only for classroom work but also for expressional activities. Prerequisites, Education 42 and 43. Miner (2)

EDUCATION 46. **Religious Education in Middle Schools.** Continuation of Education 45. Definite subjects in the middle school curriculum of religious education, combining lectures with supervised teaching in a middle school, Sunday School, or Week-day Church School, and expressional activities or projects where the work of adolescents is shared by students taking this course. Miner (2)

ECONOMICS

(See Sociology)

ENGLISH

Dwight Condo Baker, B. L., M. A., Acting Head of Department.
Miss Emma Tucker, B. A., Ph. D., Instructor.
Mrs. Henry Payne, Lecturer.

The student on matriculation is presumed to have had at least six years of the elementary study of English in the middle schools. This should include written and oral expression, together with an introduction to some English and American literary classics. He should be able to use correctly an English vocabulary of approximately three thousand words. Advanced students presenting evidence of having completed courses 1 to 4 will be admitted to senior classes in English.

ENGLISH 1. **General Language Study.** Sentence construction, based on the University of Iowa Fundamental Vocabulary; review of grammar; oral and written expression; dictation; supplementary reading. (5)

ENGLISH 2. **General Language Study.** Continuation of English 1. (5)
Prerequisite: English 1.

ENGLISH 3. **Advanced Composition.** Second year oral and written English; specimens of short essays; notebook preparation; reports; inductive grammar and rhetoric; reading. (4)
Prerequisite: English 2.

ENGLISH 4. **Advanced Composition.** Continuation of second year English. (4)
Prerequisite: English 3.

ENGLISH 21. **Narrative Masterpieces.** Introduction to representative works of English and American authors; the short story, with special attention to its development during the nineteenth century; oral and silent reading; written reports and stories. (4)
Prerequisite: English 4.

ENGLISH 22. **Narrative Masterpieces.** Continuation of English 21. (4)
Prerequisite: English 21.

ENGLISH 23. **General Western Literature.** Directed reading of poetry; prose essays, with special attention to description and exposition; translation and interpretation exercises; biographical sketches; written criticisms. (4)
Prerequisite: English 4.

ENGLISH 24. **General Western Literature.** Continuation of English 23, with special attention to English versions of classical European literature. (4)
Prerequisite: English 23.

ENGLISH 31. **The English Novel.** Detailed study of one representative novel; for advanced students in literature. (2)
Prerequisite: English 24.

ENGLISH 32. **The Drama.** Detailed study of one of Shakespeare's plays for advanced students only. (2)
Prerequisite: English 31.

ENGLISH 33. **Forensics.** Theory and practice of argumentation; principles of elocution; extemporaneous speech; for advanced students only. (2)

ENGLISH 34. **Journalism.** Principles and practice in journalistic work; preparation of an English periodical. (2)

HISTORY AND POLITICAL SCIENCE

John J. Heeren, M.A., Ph.D., Professor, Head of Department.
Chang Li-Chih, Assistant.
Mrs. John J. Heeren, Lecturer.

1. HISTORY

HISTORY A. **Introduction to Western History.** This is an elementary course required of Sub-Freshmen. The work is based on "Introduction to Western History for Chinese Students" by MacNair and Atkinson. Some map work and reference reading will be required. Normally the class-room work will be conducted in Chinese, but if a sufficient number of students have the required proficiency in English, the class will be divided into two sections, one of which will do its work entirely in English. (4)

HISTORY 1. **History of Western Europe from 376 to 1648.** The aim of this course is to give the student the essentials of European history from the fall of the Western Empire to the end of the religious wars. Special emphasis is placed upon those movements and institutions which had an appreciable influence upon the modern world.
Prerequisite: Entrance History. (4)

HISTORY 2. **History of Modern Europe.** The history of Europe is traced from the end of the religious wars to the present day. Emphasis is placed upon the important social, industrial, religious and political movements and upon the changes that have shaped the Europe of to-day. Towards the end of the course special emphasis is placed upon the causes and issues of the Great War together with the resulting problems of reconstruction. Map work and reports are required. (4)
Prerequisite: History 1, or its equivalent.

HISTORY 3. **English History.** To give a general view of English history is the aim of this course. Besides tracing the outlines of political and constitutional development, it gives the student a brief survey of social and industrial evolution as well as of colonial expansion. (4)
Prerequisite: a working knowledge of the English language.

HISTORY 4. **United States History.** This is a general course in the history of the United States. After a brief outline of European beginnings the course aims to trace the main features of the social, economic, political and constitutional development. Reports and map work will be required. (4)
Prerequisite: History 3.

HISTORY 5. **History of the Ming and the Tsing Dynasties (1368-1840).** This course traces the main features of the educational, social and political development from the beginning of the Ming dynasty to the first Anglo-Chinese war. Special emphasis is placed upon the beginning of the intercourse with the Occident and the introduction of Christianity and Western science. Reports, map work and reference reading are required. (4)

HISTORY 6 or 7. **Current Events.** This is a course in current events, dealing especially with the events of the day in Egypt, India, the Philippine Islands, Siberia, Japan and China. The material will be gleaned from current Chinese and English periodicals and newspapers. (2)

HISTORY 8 or 9. **Historical Essays.** Students majoring in History will be given an opportunity in this course of writing in English on historical subjects. No student will be admitted to this course unless he can satisfy the instructor that he has done sufficient work in History and in English to be able to take the work with profit to himself. (2)

HISTORY 20. **Modern Chinese History from 1840 to the Return of Tsingtau.** This course aims to deal with the main currents of Chinese history since the Anglo-Chinese war. The emphasis will be on the religious, educational, industrial and political changes and development. Lectures, reports, reference work and map work consitute the main features of the course. (4)

HISTORY 21 or 22. **History of the Far East.** This is a general survey of the outstanding social, industrial and political changes in China, Siberia, Korea, the Philippine Islands, India and Japan from the time of the opening of Japan to the Washington Conference. Reports, reference reading and map work are required of students taking this course. (4)

HISTORY 23 or 24. **World History from 1815 to 1924.** Beginning with the Industrial and the French Revolutions the student traces the efforts to suppress revolutionary tendencies, the old and the new colonial policies, the struggle against the fourth estate and the economic imperialism ending in the Great War. The latter part of the course treats somewhat in detail the problems of reconstruction and the various movements and organizations working for world federation. Open only to mature students who can read English readily. (4)

HISTORY 25. **Historical Seminar.** One hour a week will be spent in a detailed study of documentary source material in some field of Chinese history. The main aim is to acquaint advanced students with the methods of historical research. (2)

HISTORY 26. **The Teaching of History.** See Educational Courses.

HISTORY 27 and 28. **Essentials of Political and Economic Geography.** This course aims to give to the students of the department the essentials of political and economic geography so as to enable them to pursue their history courses with profit and efficiency. This is a two-hour course extending throughout the year, the autumn term dealing with the Eastern Hemisphere and the spring term with the Western Hemisphere. (2, 2)

2. POLITICAL SCIENCE

POLITICAL SCIENCE 1. **Introduction to Political Science.** The course deals with the origin and development of the state, the nature of the state, sovereignity, political theory and the structure and functions of government. (4)

Prerequisites: History 1 and 2.

POLITICAL SCIENCE 2. **Comparative Constitutional Government.** An attempt is made to compare the constitutional development of England, the United States, Switzerland, France and modern China. The aim is to train the student to compare critically the evolution and the value of China's constitution with those of the constitutions of the leading democracies. (4)

Prerequisites: History 1, 2, 3 and 4.

MATHEMATICS AND ASTRONOMY

Wang Hsi-En (S. C. U.) Professor, and Head of Department.
T'en Hsi-Ching (S. C. U.) Associate Professor.

1. ASTRONOMY

ASTRONOMY 7. **Descriptive Astronomy.** The earth; astronomical instruments and their adjustment; the orbit of the sun; the sun, the moon, tides, eclipses of the sun and moon; solar system, planets, meteors. (3)

ASTRONOMY 8. **Descriptive Astronomy.** Continuation of Astronomy 7. (3)

ASTRONOMY 23. **Mathematical Astronomy.** The use and correction of the equatorial instrument, transit, zenith telescope, sextant; calculation of right ascension, declination, latitude and the azimuth of a star, mean solar time, siderial time, latitude; use of the almanac; calculation of the eclipses of the sun and moon. (4)

ASTRONOMY 24. **Mathematical Astronomy.** Continuation of Astronomy 23. (4)

ASTRONOMY 28. **Meteorology.** (2)

2. MATHEMATICS

MATHEMATICS 1. **Plane Trigonometry.** Trigonometric functions, solution of right angles, analysis of a triangle. (4)

MATHEMATICS 3. **Advanced Algebra.** Ratio and proportion, variation, permutations and combinations, continued fractions, indeterminate equations, arithmetical series, geometrical series, logarithms, theory of equations, higher numerical equations. (4)

MATHEMATICS 5. **Analytical Geometry.** Loci and their equations, the straight line, circle, different systems of co-ordinates, parabola, ellipse, hyperbola, loci of the second order, higher plane curves, the point in space, the straight line in space, surfaces of revolution, and transformation of co-ordinates. (4)

MATHEMATICS 6. **Analytical Geometry.** Continuation of Mathematics 5. (4)

MATHEMATICS 10. **Surveying.** The use of the tape, compass, transit, and level; land surveying; leveling; triangulations; railroads; and river surveying. (3)

MATHEMATICS 12. **Spherical Trigonometry.** The right spherical triangles, and the application of spherical trigonometry. (3)

MATHEMATICS 20. **Differential Calculus.** Functions, differential coefficient, differentiation, successive differentiation, implicit functions, expansion of functions, indeterminate forms, partial differentiation, certain curves, direction of curves, tangent and normal, points of inflection, curvature, evolute and involute, osculation circle, envelopes, maxima and minima. (4)

MATHEMATICS 21. **Integral Calculus.** Elementary forms of integration, integration by substitution, integration by parts, integration by successive reduction, integration of the trigonometric functions, successive integration, application of integral calculus. (4)

MATHEMATICS 22. **Applied Calculus.** (2)

MATHEMATICS 25. **Mathematical Physics.** (3)

MATHEMATICS 26. **Mathematical Physics.** (3)

MATHEMATICS 27. **Mathematical Physics.** (2)

PHYSICS

Harkness, Harold Wilson, B A., B. S., Professor, Head of Department.
Wang Ping-Hsiao, (S. C. U.) Assistant Instructor.

In the courses as shown below the students will spend two periods of two hours each per week in the laboratory. One period of one hour per week is given to class instruction and discussion of laboratory work.

PHYSICS 1. **Mechanics.** Equilibrium of a particle and a rigid body, motion of a particle and a rigid body, work, energy, laws of impact, elasticity and S. H. M. (4)

PHYSICS 2. **Properties of Matter and Heat.** The gas laws, density of solids, liquids, gases and vapours, measurement of temperature, hygrometry, calorimetry, viscosity, change of state and radiation. (4)

PHYSICS 3. **Electricity and Magnetism.** Elementary discussion of the electro-magnetic field. Electric currents, P. D., resistance, temperature coeff. of resistance, capacity, e. m. f., electro-magnetic induction, electrolytic conduction, radio-activity, thermo-electromotive force, magnetic induction, thermionic emission, electric machines. (4)

PHYSICS 4. **Optics and Sound.** Elementary geometric optics covering the laws of reflection, refraction, and formation of images by lenses and mirrors with applications to optical instruments. Physical optics covering reflection, refraction, diffraction, polarization, dispersion and spectra and X-Rays, Sound. Wave motion, resonance and velocity of sound. (4)

More advanced courses will be arranged for Arts students provided the number of students majoring in Science justifies it.

Text and reference books for the above courses are as follows:

Mechanics Molecular Physics and Heat—Millikan.
Electricity Light and Sound—Millikan and Mills.
Practical Physics (Chinese or English)—Millikan and Galc.
Practical Physics—Watson.
Manual of Physical Measurements—Reed and Guthe.
General Physics for Colleges—Webster, Farwell and Drew.

POLITICAL SCIENCE

(See History)

PSYCHOLOGY

Li T'ien-Lu, M. A., Ph. D., Professor, Head of Department.
Li Li-Tsuen, Lecturer.

PSYCHOLOGY 1 and 2. **General Psychology.** This course is intended for beginning students. It treats of the main functions of the mind, such as as Sensation, Perception, Attention, Memory, Imagination, Thought, Feeling, and Will. Li (2, 2)

PSYCHOLOGY 3 and 4. **Educational Psychology.** See Education 5 and 6. Li (4, 4)

RELIGIOUS INSTRUCTION

Howell Portman Lair, S. T. M., D. D., Professor, Head of Department.
Members of the Faculty of the School of Theology.

Note. The courses listed below are given in the School of Arts and Science. Not all of the courses can be given in any one year, but students will have an opportunity to elect any course before completing the requirements for graduation. Other

courses in the School of Theology may also be elected by students in the School of Arts and Science on the approval of the Head of the Department and the Dean of the School of Theology. The members of the Theological Faculty also assist in the instruction in this Department.

RELIGIOUS INSTRUCTION 3 and 4. **Old Testament History.** Covering the historical sections of the Old Testament to the return from captivity, with introductions to the Prophets, and special attention given to the geography of Bible lands. Lectures, outlines, assigned readings, term papers. Two hours a week though the year. (2, 2)

RELIGIOUS INSTRUCTION 5 and 6. **Life of Christ.** A study of the life and character and work of Jesus, with special reference to contemporary history and interpretation of His teachings. Text book with reference work aand supplementary lectures. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 7 and 8. **Apostolic History.** A detailed study of the problems and conditions of the early church with application of the principles there found to present-day needs. Introduction to apostolic literature. Text book and lectures. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 21 and 22. **History of Religion.** A study of the origin and development of the great living religions, with special attention given to the sacred scriptures and the influence of the various religions on the practical life of the people. Lectures, assigned reading, topical reports, term papers. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 23 and 24. **Interpretation of the Bible.** An examination of the various types of scriptural passages which are difficult to harmonize with modern thought, and suggestions as to their use. Also a sketch of the historical development of some great teachings in the Bible. Lectures, assigned readings, topical reports, term papers. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 25 and 26. **Apologetics.** An examination of the fundamental facts and principles of the Christian religion, showing that the known facts of Christianity meet the needs of man's religious nature, and a review of the evidences for Christian belief. Two hours a week through the year. (2, 2)

RELIGIOUS INSTRUCTION 27 or 28. **Origin and Development of the Hebrew Religion.** A study of the growth of great religious ideas as illustrated in the history of the Hebrews. English text, with supplementary syllabus. Topical reports, term papers. Two hours a week for one semester. (2)

SOCIOLOGY, SOCIAL SERVICE, AND ECONOMICS

Albert G. Parker, Jr., A. B., B. D., Associate Professor, and Head of Department.
Wu, Gin-Ding David, (S. C. U.) Assistant Instructor.

Of the following courses those above 10 are not open to Freshmen; those above 20 are not open to Sophmores but are open to Juniors and Seniors and to Special Students who have done sufficient work in the earlier courses.

The students majoring in the department are required to take Courses 1 and 2, 11 and 12, and at least two from 21, 22, 29 and 30.

SOCIOLOGY 1 and 2. **Introduction to Sociology.** This course of two semesters is for Freshmen. The student should become acquainted with the important social problems of the modern world and should give special study to Chinese social problems. The text used is Dow's "Society and its Problems". Ellwood's text and reference reading is also required. The class discussion is in Chinese. (3, 3)

SOCIOLOGY 3. **Sociology and Modern Social Problems.** This course will be given in Chinese for special students and students of other departments who do not wish to study Sociology with an English textbook. Special emphasis is given to Chinese social problems. Ellwood's or some other available Chinese text is used with reference readings. This course is offered once in two years. (3)

SOCIOLOGY 5. **Introduction to Economics.** The purpose of this course is to state simply the chief principles of the study of economics and to give some acquaintance with the economic problems of China. It is given in Chinese for students of the department who may wish to take it before courses 11 and 12 and for special students or students of other departments. This course is offered once in two years. (3)

SOCIOLOGY 7. **The Chinese Family.** This course deals with the teaching of the Classics concerning the family, the special characteristics of the Chinese family, a historical sketch of the Chinese family, the evolution of Chinese marriage, and the modern problems of the Chinese family. The reference reading is chiefly in Chinese. This course is offered once in two years. (1)

SOCIOLOGY 9. **The Modern City.** The students are required to visit a number of the institutions of Tsinan and special emphasis is given to the social problems of this city. A written report of investigation is required. The reference reading is chiefly in English. This course is offered once in two years. (2)

SOCIOLOGY 10. **Economic Ways of Getting a Living.** The purpose of this course is to give students some knowledge of the many kinds of employment and professions which are necessary in the modern industrial world together with a view of the specialized training which is necessary for each form of work. The class discussion and references are in English. This course is offered once in two years. (1)

SOCIOLOGY 11 and 12. **Principles of National Economy.** The purpose of this course is to acquaint the students with the principles upon which national prosperity is based. Special emphasis is given to the important economic problems of China. Carver's text is used. This course, which runs throughout the year, is for sophomores in the department and for others who have had Courses 1 and 2 or 3 or 5. (3, 3)

SOCIOLOGY 14. **Social Evolution.** This course deals with the factors of organic evolution and their effect on the human race, and with the special factors at work in social evolution. Tsai Ho Shen's "Social Evolution" is used with other reference reading in English and Chinese. This course is given once in two years and alternates with Course 21. (2)

SOCIOLOGY 15. **The Family.** This course deals with the origin, development, forms, functions and modern problems of the family. The references are in English and Chinese. This course is offered once in two years. (2)

SOCIOLOGY 17. **Modern Industrial Problems.** The purpose of this course is to acquaint the students with the growth of industrial life and the problems which arise from it. English and Chinese reference reading is used. This course is offered once in two years. (1)

SOCIOLOGY 20. **Social Psychology.** This course deals with instincts, the relative effects of heredity and environment in man's development, the social processes between individuals in society, social control, social attitudes, sentiments etc. Ellwood's and McDougall's texts in Chinese are used and the class discussion is in Chinese. This course is offered once in two years and alternates with Course 22. (3)

SOCIOLOGY 21. **Social Evolution.** The purpose of this course is the same as that of 14. In this course Chapin's textbook with reference reading is used. The class discussion is in English. This course is offered once in two years and alternates with Course 14. (2)

SOCIOLOGY 22. **Social Psychology.** This course is the same as 20 with the exception that the class discussion is in English. (3)

SOCIOLOGY 23. **Racial Problems.** The purpose of this course is to study the meaning of race and the points wherein races are distinguished and separated. It seeks a solution based on scientific considerations for the pressing problems of race relations. Classwork and reading are in English. This course is offered once in two years. (1)

SOCIOLOGY 24. **Readings in Social Leadership.** The material for this course is found in biographies. The purpose is to learn what influences have affected the lives of distinguished men and how the men in turn have influenced society. The work is in English. This course will be offered once in two years. (1)

SOCIOLOGY 25. **Social Science and the Bible.** The purpose of this course is to show how the Bible may be interpreted in the light of the principles and facts of social science, It is pointed out that the principles of Christianity are necessary fundamentals of a sound social order. This course is offered once in two years. (1)

SOCIOLOGY 29. **Social Origins.** The purpose of this course is to train students to find, read and apply to modern life the truth about the origin of the different institutions of society. The chief source of material is Thomas' "Source Book of Social Origins". The work is in English. This course is offered once in two years. (2)

SOCIOLOGY 30. **Principles of Sociology.** The purpose of this course is to discuss principles rather than problems. The leading textbooks of Sociology constitute the source of material. This course is offered once in two years. (3)

SCHOOL OF THEOLOGY

GENERAL REGULATIONS

For information regarding admission to the School of Theology, fees and deposits, and student expenses, see the section on Entrance Regulations, pages 33 to 54.

Scholastic Regulations and Granting of Diplomas and Certificates.

The unit of scholastic work is one hour of regular class-room work for one semester; the credit value of courses which require little or no preparation, such as music, being reduced to one-half or one-third. The credit value of most courses is indicated in the description of courses of study.

Three years work, with a total of 96 units, is required for graduation, when each student will receive the diploma of the School and the appropriate Certificate for Vocational Training. Graduates of the School of Arts and Science, who have taken the requisite courses in Theology as electives while pursuing their course in the School of Arts and Science, may be allowed to graduate after two years of study in the School of Theology.

Scholarships.

(a) Gibson Scholarships. The School of Theology offers a limited number of Gibson Scholarships of the value of $100.00 per annum, tenable for three years, to Arts Graduates of the University who enter the School of Theology, under conditions which may be obtained on application to the Dean of Theology.

(b) Kung Li Hui Scholarship. The North China Kung Li Hui has assigned to the School of Theology one scholarship tenable for three years in amount equal to grants given the students directly supported by the society itself. This scholarship may be awarded by the School to any qualified student not receiving support from any official church body. No obligation to the donors is involved.

COURSES OF STUDY

In addition to the regular course for those who are preparing as pastors or evangelists, two courses are offered— one for Y. M. C. A. secretaries, and one in Religious Education.

Required Subjects. The minimum of units required in certain subjects is indicated in the following tables:—

Table One.

Academic Courses. Number of Required Units in Certain Subjects.

	Regular Course	Religious Education	Secretarial Training
New Testament	18	15	15
Old Testament	18	9	9
Church History	9	6	9
Theology	6	3	3
Religion and Ethics	6	6	6
Religious Education	5	16	7
Chinese	9	6	6
Other Required Subjects		6	12
Electives	16	23	12
	87	90	79

Table Two.

Specialized Training Courses.

Sermon Class	3		
Pastoral Theology	4		
Music, 1 hr. to count as ½ hr.	2	1	1
Credit Practice Work (a)		5	6
Professional Courses			10
Total for Graduation	96	96	96

(a) In Practice Work five hours count as three.

Electives. In the Regular Course, electives may be taken in the line of any of the required subjects except Chinese, whenever additional courses are offered. In addition Greek is offered, and English. Certain courses in Social Science, Education, and Religious Instruction may be taken in the College of Arts and Science. In Religious Education the electives are the same, with the exception of Greek.

Regular Course, First Year

This is given in full for the guidance of new students.

Semester 1.		Semester 2.	
New Testament	3 hrs.	New Testament	3 hrs.
Old Testament	3 hrs.	Old Testament	3 hrs.
Introduction to Philosophy	3 hrs.	Religious Education	3 hrs.
Chinese	3 hrs.	Chinese	3 hrs.
Sermon Class 1 hr.	½ hr.	Sermon Class	½ hr.
Music 1 hr. to count as	½ hr.	Music	½ hr.
Electives, minimum	3 hrs.	Electives, minimum	3 hrs.
Total, minimum	16 hrs.	Total, minimum	16 hrs.

Course in Religious Education

Additional Required Subjects (for those making Religious Education a vocation):—Educational Psychology, Principles of Education, Teaching Methods (as offered in School of Arts), also Introduction to Philosophy, Psychology of Religion.

At least five semester hours of Practice Work under the supervision of the Department of Religious Education are required.

It is most desirable that students should be able to undertake collateral reading in English.

The Rural Church (Advance Notice)

Realizing the urgent need in all sections of the Church in China for workers specially trained for Rural Evangelization, and in view of the fact that our location affords special advantages for the provision of such training, the School of Theology has projected a plan for the development of a department to meet this need, to be called the Department of the Rural Church. Mr. S. C. Lo of the present staff will be the head of this department. The school expects to be able to offer information with regard to courses, instructors, and practice work in its next bulletin.

Course in Secretarial Training for the Y. M. C. A.

As this course is now offered for the first time, it is printed in full following the description of courses.

Evangelism and Social Service

The School aims to produce thorough scholars, trained evangelists, and men of vigorous spiritual life. The various churches and preaching halls in the city of Tsinan, the University Extension Department, the University Student Centre, and the Lung Shan Country Centre maintained by the School of Theology at a town twenty-six miles by rail from Tsinan, afford ample opportunity for different kinds of service and experience. This work is undertaken under the supervision of members of the Faculty, and all students receiving scholarship aid either from Missions or the School are required to take part in it.

DESCRIPTION OF COURSES

IN THE

SCHOOL OF THEOLOGY

Instruction in the School of Theology is grouped under the following:—

Old Testament	Religion and Ethics
New Testament	Pastoral Theology
Theology	Professional Courses, Y. M. C. A.
Church History	Chinese Language and Literature
Religious Education	Greek

English, Social Sciences, History, and Education, are taken in the School of Arts and Science.

Double numbers in the Description of Courses indicates that the course covers two semesters, otherwise all courses are semester courses.

OLD TESTAMENT

The work of this Department is planned to cover six terms and consists of six consecutive courses of three hours weekly.

1. **The History, Religion and Literature of Israel up to the Ninth Century.** This course is based on a study of the Hexateuch, Judges, and I and II Samuel.

2. **The History, Religion and Literature of Israel during the Eighth Century.** This course is based on a study of I and II Kings, Amos, Hosea, Isaiah 1-39 and Micah. Special Book: Hosea or Isaiah 1-39.

3. **The History, Religion and Literature of Israel during the Sixth Century and up to the Exile.** This course is based on a study of II Kings, Jeremiah and Deuteronomy. Special Book: Jeremiah or Deuteronomy.

4. **The History, Religion and Literature of Israel during the Exile.** This course is based on a study of Jeremiah, Ezekiel and Isaiah 40-55. Special Book: Isaiah 40-55.

5. **The Post-exilic History, Religion and Literature of Israel.** This course is based on a study of Ezra, Nehemiah, Haggai, Zechariah, Isaiah 55-66, Jonah, Daniel, Wisdom Literature, I Maccabees. Special Book: Job.

6. **Special Book: Psalms.** The course in each Special Book includes: (1) Introduction (date, authorship, composition, etc.,) (2) Subject matter; (3) Exegesis; (4) Exposition of the leading religious ideas of the book with special reference to their contribution to Christianity.

NEW TESTAMENT

Courses. 3 hours weekly except where otherwise indicated.

1. Life of Christ and Introduction to the Synoptic Gospels.

(a). Canon and Text of the New Testament.

(b). The Background of the New Testament.
A brief study of social and religious conditions of New Testament times.

(c). The historical study of the Biblical records of the Life of Christ.

2. Pauline Literature.

(a). Life of Paul and Introduction to the Pauline Epistles.

(b). Corinthians I and II. A study of a New Testament Church.

or

A brief outline study of Ephesians or Philippians.

3. Romans. Exposition of the argument and exegesis of selected passages.

4. Pastoral Epistles. Special attention will be given to the Ministry in the Early Church.

5. Johannine Literature. Introduction and Exegesis.

6. The Catholic Epistles. Introduction and Exposition.

THEOLOGY

Courses. 3 hours weekly. Outlines of Christian Thelogy.

1. The Christian Doctrine of God, of Man and Sin.

2. The Person and Work of Christ.

3. The Holy Spirit and The Church.

CHURCH HISTORY

Courses. 3 hours weekly.

1. The Early Church. This course covers the Apostolic Age and the subsequent period up to A. D. 590.

2. The Church in China. The beginning of the Christian Church in China and its development up to the present time.

3. The Religious Sects of the Pre-Reformation Period.

4. The Reformation Period.

5. Great Men of the Church. A course designed to bring students into living touch with some of the great men of the Church.

6. History of the Modern Church.

RELIGION AND CHRISTIAN ETHICS

Courses. 3 hours weekly except where otherwise indicated.

1. Introduction to Philosophy. A course acquainting the student with the main problems of Western Philosophy. Attention is given to their religious bearings.

2. Psychology of Religion. A psychological study of various levels and types of religious experience from the standpoint of their function and meanings.

3. Comparative Religion. A survey study of local religious communities (non-Christian) is made, furnishing material for class discussion and evaluation of the meaning and value of each religion to its own adherents and in relation to Christianity.

4. Philosophy of Religion. First a study is made of religion in relation to the rest of human experience to discover its immanent trend and distinct contribution. This is followed by an enquiry into the philosophical validity of the Christian experience and idea of God. Modern philosophical views are examined to discover their bearing upon this and the related problems involved in a theistic view of the world.

5. Christian Ethics. (Biblical Ethics.) A study of the Sources of modern Christian ethical thought in the teachings of the main ethical movement of the Old Testament, in the ethics of Jesus and the ethics of Paul, with a final section covering the transition to modern Christian ethics.

6. Advanced Ethics. (Modern Problems.) 1 or 2 hrs. The social application of Christianity. What is the Christian position on modern ethical problems such as the family, labor, war etc.,?

All courses are semester courses.

PASTORAL THEOLOGY

Courses are 2 hours weekly except where otherwise indicated.

1. Sermon Class. 1 hour weekly throughout the year. The students preach in turn for criticism by students and Faculty.

2. Principles and Methods of Evangelism.

3. The Work of the Minister.

4. Rural Community Problems. A study of the religious, social, and economic conditions in rural life in China. 3 hours.

5. The City Church and its Problems.

6. The Church in China. The course will deal with development of an indigenous Church.

7. Music. 1 hour weekly, through the year.

8. Elocution.

RELIGIOUS EDUCATION

1. Educational Psychology. To be taken in the College of Arts. Four hours.

2. Principles of Religious Education. A general view of the principles of Religious Education, covering the purpose and the psychological background. Based on Coe's "A Social Theory of Religious Education", and Coe's "Education in Religion and Morals". Three hours.

3. Child Psychology. To be taken in the College of Arts. Four hours.

4. The Religious Life of Children. A study of childhood religion. Course 3 is a prerequisite. Two hours.

5. The Psychology of Adolescence, as related to Religious Life. A study of the psychology of "the 'teen age" and its moral and religious problem, and of the best methods for guiding students during this critical period. Two hours.

6. The Problems of Adolescent Girls. Especially adapted to China. Course 5 is a prerequisite. Based in part on Moxcey's "Girlhood and Character", and "Leadership in Girls Activities". Two hours.

7. Methods of Religious Education in Middle Schools. Including Adolescents in Sunday Schools and Week-Day Church Schools. Prerequisites, Courses 2 and 5. The topics include the aims of religious education in Middle Schools, subject matter, or curriculum, and a study of methods not only for classroom work but for expressional activities. Two hours.

8. A Continuation of Course 7. Definite subjects in the Middle School curriculum of Religious Education, combining lectures with supervised teaching in a Middle School, a Sunday School, or a Week-Day Church School, and expressional activities or projects where the work of adolescents is shared by students taking this course. Two hours.

9. Organization and Administration of Religious Education. Including the Sunday School. This course will deal not only with organization and management of religious education in a church, but also in a community or a denomination. Two hours.

Practical Work. Some practical work of a specialized nature may be taken in the Y. M. C. A. Secretarial Training Course.

For other courses see Pastoral Theology.

Y. M. C. A. SECRETARIAL TRAINING

1. History, Principles and Policy of the Y. M. C. A. Second Year, First Term. In the light of the economic, social and religious conditions of today, a study will be made of the opportunities for service that the Association can render. The historical development of its principles will be studied. Three hours one semester.

2. Association Methods and Practice. (2 hours). **Practice Work.** (3 hours). Second Year, Second Term, and Third Year, First Term. These courses are a study of the methods and practices that have been developed under the name of association work in meeting the four-fold needs of men and boys. In order to secure understanding of actual work and concrete experience the student will select some phase of work in the local Y. M. C. A. which will be done under the guidance of the instructor and department head on the basis of written plans. Five hours actual work required with additional preparation.

3. Organization and Administration. Third Year, Second Term. A study of the executive side of the secretaryship, with the use of the membership, volunteers, the building, financing, etc., the four-fold program in actual practice. Three hours one semester.

ENGLISH, SOCIAL SCIENCE, EDUCATION, AND HISTORY

See curriculum of the School of Arts and Science.

CHINESE

See Bulletin in Chinese.

PROPOSED COURSE FOR TRAINING ASSOCIATION SECRETARIES

First Year

Semester 1.		Semester 2.	
Old Testament	3 hrs.	Old Testament	3 hrs.
New Testament	3 hrs.	New Testament	3 hrs.
Religion and Ethics	3 hrs.	Religious Education	3 hrs.
Principles of Educ. (Arts)	2 hrs.	Religion and Ethics	3 hrs.
Chinese	3 hrs.	Chinese	3 hrs.
Music 1 hr. to count as	½ hr.	Music 1 hr. to count for	½ hr.
English or elective (Minimum)	2 hrs.	English or elective (Minimum)	1 hr.
Minimum	16½ hrs.	Minimum	16½ hrs.

Second Year

Semester 1.		Semester 2.	
A. Professional Courses.		A. Professional Courses.	
History, Principles and Policy of Y. M. C. A.	3 hrs.	Assoc. Method and Prac.	2 hrs.
		Practice work 5 hrs to count	3 hrs.
B. General Theological.		B. General Theological.	
Social Sciences (Arts)	3 hrs.	Social Sciences (Arts)	3 hrs.
Religious Education	2 hrs.	Religious Education	2 hrs.
New Testament	3 hrs.	New Testament	3 hrs.
Electives (Minimum)	5 hrs.	Church History (Early Church)	3 hrs.
Old Testament		Minimum	16 hrs,
Comp. Religion			
English			
History			
Introd. to Theol.			
Minimum	16 hrs.		

Third Year

Semester 1.		Semester 2.	
A. Professional Courses.		A. Professional Courses.	
Assoc. Method and Practice	2 hrs.	Organization and Administration of Y. M. C. A.	3 hrs.
Practice work 5 hrs to count	3 hrs.		
B. General Theological.		B. General Theological.	
Old Testament (unless 3 O. T. courses have already been covered)	3 hrs.	New Testament	3 hrs.
		Philosophy of Religion	3 hrs.
Theology	3 hrs.	Church History (Modern)	3 hrs.
Church History (Reformation)	3 hrs.	Public Speaking	1 hr.
Social Hygiene	1 hr.	Electives, (Minimum)	3 hrs.
Public Speaking	1 hr.	Special Assoc. Work	
Minimum	16 hrs.	Theology	
		Advanced Christian Ethics	
		English	
		Education	
		Minimum	16 hrs.

In First Year practical religious work is required—under direction of Association.

Years 1 and 2, have physical work required, of such nature as to prepare student to understand Y. M. C. A. physical work from a non-technical point of view. Election of this course by student is dependent on approval of Dean, and recommendation by the General Secretary of some Association.

Completion of course entitles to Professional Certificate in Association work and if certain requirements are met by elections, a full Theological Diploma can be secured.

SCHOOL OF MEDICINE

GENERAL STATEMENT

The School of Medicine is situated on the Medical Campus in the South Suburb of Tsinan, adjoining the general University Campus, from which it is separated only by the suburb wall.

The main school building consists of a large three-story central block, with east and west laboratory wings. In addition to class-rooms, the building contains large well-lighted laboratories devoted to Biological Chemistry, Pharmacy and Pharmacology, Histology and Embryology, Pathology and Bacteriology, and the Department of Anatomy and Dissection. A special laboratory is set apart for the routine examination of specimens from patients in the hospital. The medical branch of the University Library, containing reference books and an adequate assortment of current periodicals, is lodged in the central medical building. The Laboratory of Physiology and the offices of the Department of Preventive Medicine are accommodated on the main University campus outside the suburb.

Adjoining the School of Medicine is the University Hospital and Dispensary, with a frontage of 400 feet. The Hospital, which was erected in 1915, provides accommodation for 105 patients. The Out-patient Dispensary consists of a central waiting room with consulting rooms for the different departments and a laboratory for routine examinations, and operating rooms for surgical and ophthalmic out-patients. The Department of Roentgenology is also situated in this building. Funds are in hand for the erection of new buildings more than doubling the present capacity of the Hospital and Out-Patient Department, and adding substantially to the teaching laboratories.

Opposite the Hospital is a Hostel for twenty-five male patients, for the accommodation of those well enough to be discharged from the wards but needing further treatment.

The School of Medicine possesses dormitories and a students' commons for the men students, adjoining the teaching buildings. The women students are lodged on the University Campus outside the

suburb wall in a building containing sleeping rooms, study hall, social room and dining room. It is equipped with modern plumbing and lighted by electricity.

Besides the above buildings, residences are provided for the members of the staff.

In addition to the Medical School there is, connected with the Hospital, a Nursing School for both men and women nurses.

For information regarding admission to the School of Medicine, fees and deposits, and student expenses, see the section on Entrance Regulations, pages 33 to 54.

PRIZES

Doggart Prize. From funds contributed by Mr. A. R. Doggart of Darlington, England, a prize of $60 each year is awarded to the member of the second year class whose marks are highest for the first two years of the course, and $40 to the student whose marks are second highest.

COURSE OF STUDY

Instruction is given in Mandarin. The course of study in the School of Medicine covers a period of five years. Each year is divided into two semesters of sixteen teaching weeks each. The curriculum is being revised at the time of publication of this Bulletin. The ground covered will be approximately the same as under the present schedule, submitted below:—

First Year

First Semester	Hours	Second Semester	Hours
Histology	140	Histology	70
Anatomy	170	Embryology	70
Biological Chemistry	170	Anatomy	170
English	80	Physiology	32
		Bacteriology	140
		English	80

Second Year

First Semester	Hours	Second Semester	Hours
Anatomy	140	Anatomy	80
Physiology	160	Physiology	180
Materia Medica	48	Pathology	180
Pharmacy	130	Materia Medica	64
English	80	English	80

Third Year

First Semester	Hours	Second Semester	Hours
Pathology 1	32	Medicine 2	80
Medicine 1	80	Laboratory Diagnosis 2	64
Therapeutics	94	Surgery 2	80
Physical Diagnosis	64	Obstetrics 1	48
Laboratory Diagnosis and Parasitology 1	170	Clinical Medicine 1, and Clinical Surgery 1 (in groups)	208
Surgery 1	80		
English	80	English	80

Fourth Year

First Semester	Hours	Second Semester	Hours
Medicine 3	64	Medicine 4	64
Surgery 3	80	Surgery 4	80
Obstetrics 2	48	Ophthalmology 2	64
Ophthalmology 1	64	Dermatology and Syphilology 2	32
Dermatology and Syphilology 1	32	Pediatrics	48
Clinical Medicine 2, Clinical Surgery 2 and Specialties (in groups)	192	Clinical Medicine 3, Clinicial Surgery 3 and Specialties (in groups)	192
English	80	English	80

Fifth Year

First Semester	Hours	Second Semester	Hours
Clinical Medicine 4, Clinical Surgery 4 and Specialties (in groups)	288	Clinical Medicine 5, Clinical Surgery 5 and Specialties (in groups)	288
Pathology 2	64	Pathology 3	64
Preventive Medicine 1	32	Preventive Medicine 2	32
Nervous and Mental Diseases 1	16	Nervous and Mental Diseases 2	16
Gynecology 1	16	Gynecology 2	16
Operative Surgery	32	Anesthetics	16
Diseases of Ear, Nose, Throat 1	16	Medical Jurisprudence	8
English		Diseases of Ear, Nose, and Throat 2	16
		English	

UNIVERSITY HOSPITAL

The University Hospital, with accommodation for 115 beds, was opened for the reception of patients in 1915. The equipment is a modern one, and offers excellent clinical facilities for the students of the Medical School. Adjoining this building is the Out-Patient Department, where patients are seen daily. In connection with this there is a well equipped X-Ray and Electro-therapeutic Department. These buildings are situated in the South Suburb of Tsinan, close to the Extension Department. The Management of the Hospital is under the direct control of the Faculty of the School of Medicine.

TRAINING SCHOOL FOR NURSES

In connection with the University Hospital a training school for nurses was established in 1915, and now contains some 40 men and women student nurses, who are under the control of the Nursing Superintendent and her associates.

The School is registered under the Nurses' Association of China. The nurses receive practical instruction in the wards, and attend special classes in the subjects prescribed by the Nurses Association of China. The course covers a period of four years, and those who pass the examinations receive the Association diploma, in addition to the one given by the School.

Communications relating to the Training School for Nurses should be addressed to The Nursing Superintendent,

University Hospital,

Tsinan, Shantung.

EXTENSION DEPARTMENT

The work of the Tsinanfu Institute is a continuation of that commenced in Tsingchowfu in 1887 and transferred to Tsinanfu in 1904. It was incorporated with the University in 1917 on the occasion of the removal of the School of Arts and Science and the School of Theology to Tsinanfu. It represents the direct influence of the University on social, educational, and evangelistic lines upon all sections of Tsinan and its vicinity, as well as over a wide area beyond, especially upon the educated and student classes. The work of the Institute is carried on mainly through its extensive museum exhibits, distribution of literature, and through the medium of public lectures and addresses.

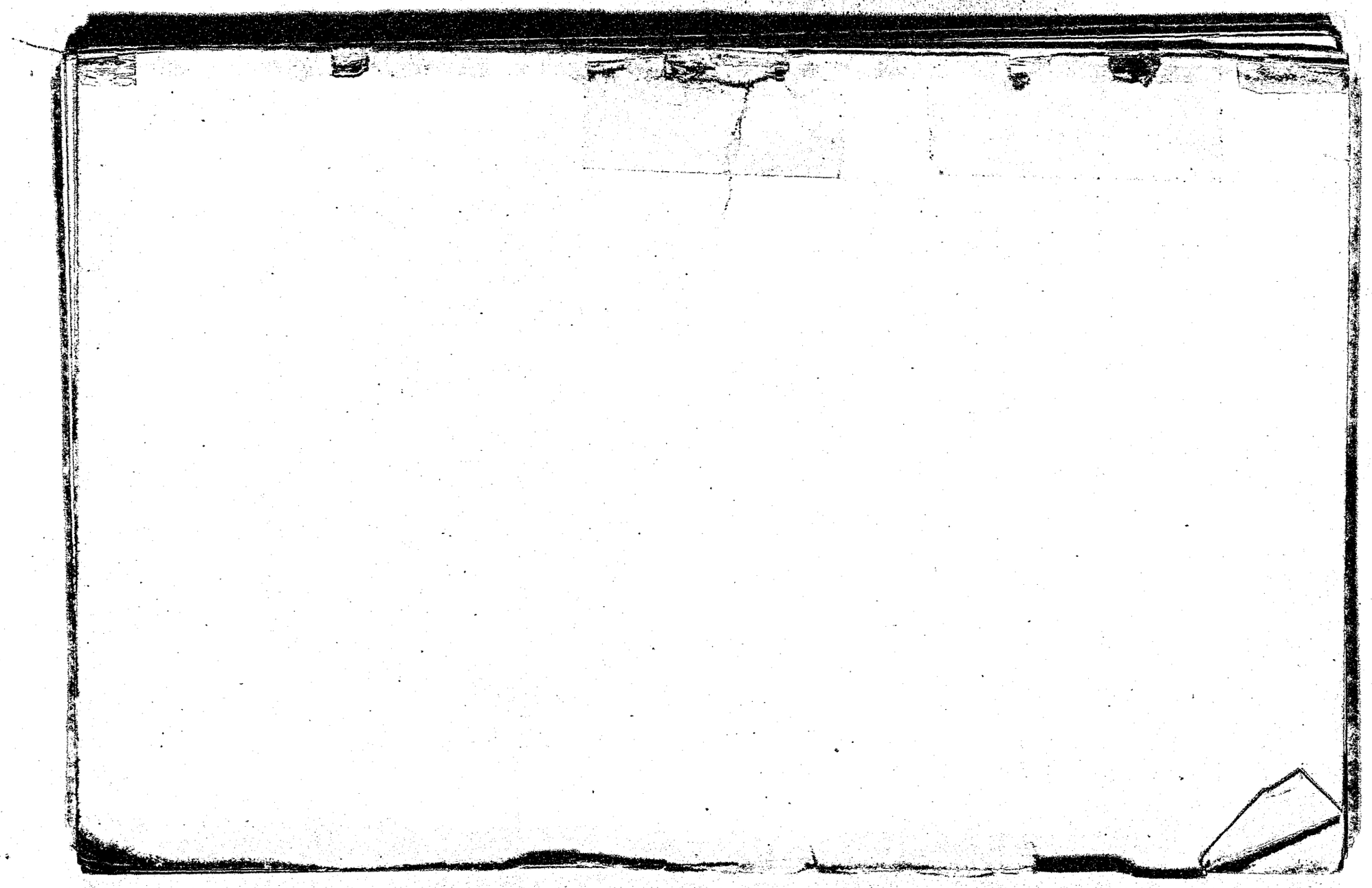
The museum collections include: historical charts and diagrams, models on transport and communication, apparatus and diagrams illustrating practical scientific applications, diagrams and models giving elementary instruction in physiography, geology, astronomy, natural history, and other lines of scientific and economic interest. Special sections are given up to models on afforestation, and to the subject of hygiene and the prevention of disease.

The three main buildings of the Institute are the Museum and two Lecture Halls, the larger seating five hundred. Not infrequently the latter hall has to accommodate over a thousand people, all standing space being occupied.

There are also reading rooms, library, reception rooms, workshops, and assistants' rooms. A separate department is the department for students of the local government colleges. The Institute reports a total of 400,000 visits for the past year.

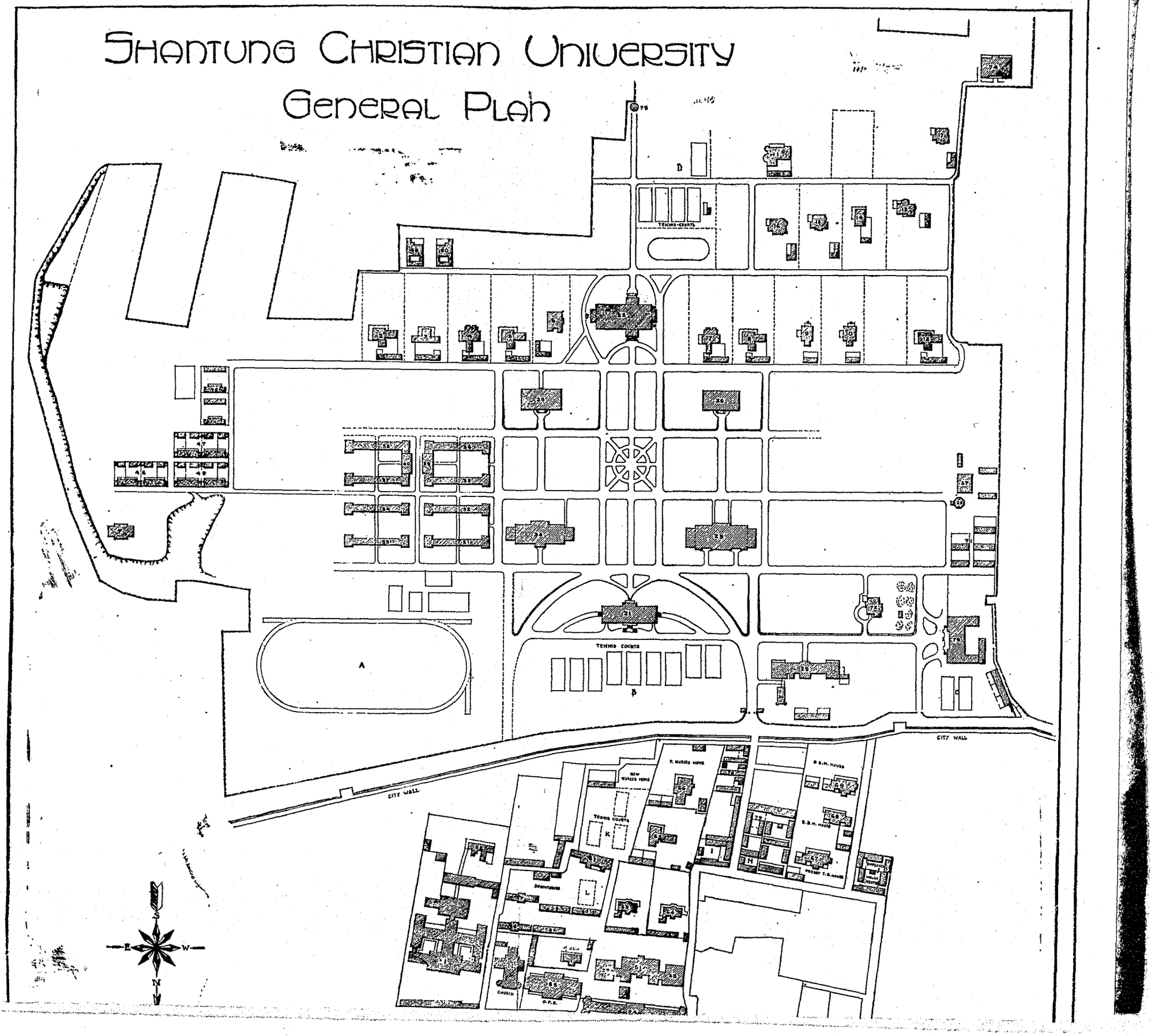
The public lectures of the Institute include lectures on afforestation, hygiene, western education, the Panama Canal, the Red Cross, etc., etc. Some of these lectures are repeated to different audiences throughout the city and suburbs.

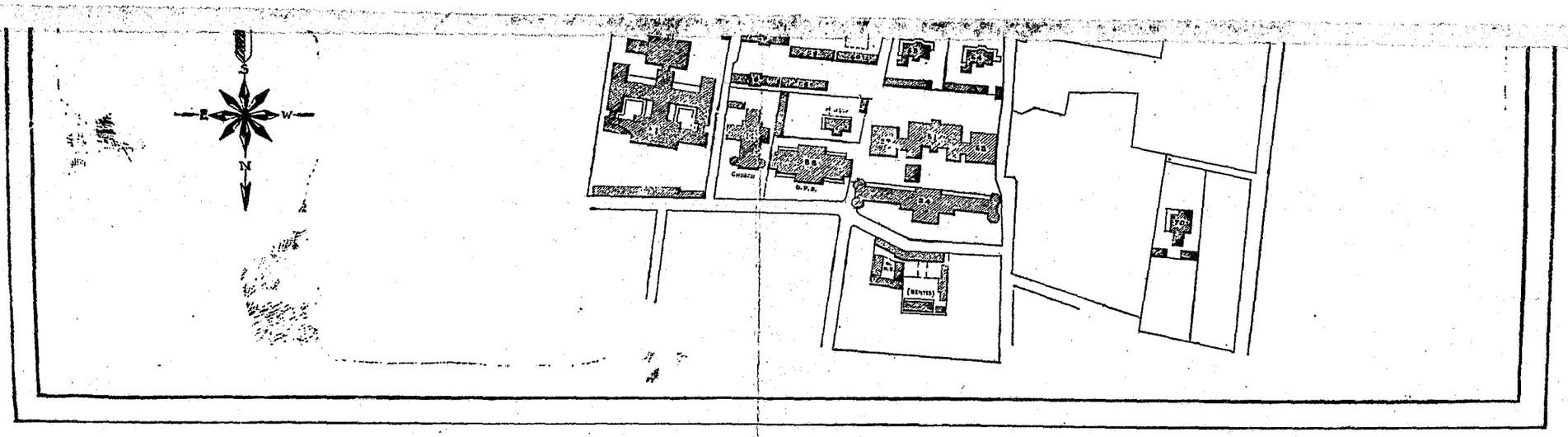
The teaching staff and students of the University find ample opportunity for meeting people of all classes in the buildings of this department. A large number of the staff and the senior students have taken part in its work in giving lectures and evangelistic addresses.



Shantung Christian University

General Plan





GENERAL PLAN OF SHANTUNG CHRISTIAN UNIVERSITY

(Scale, 0.0003 per meter)

Nos. 2 to 19	Residences, Foreign Style.
No. 21	McCormick Hall, (Administration Building).
No. 22	Kumler Memorial Chapel.
No. 23	Bergen Hall, (Chemistry, Biology, Classrooms).
No. 24	Calvin Mateer Hall, (Physics, Classrooms).
No. 25	Augustine Library.
No. 26	Gotch Robinson School of Theology.
No. 27	University Power Plant.
No. 28	Water Tower.
No. 29	St. Paul's Hostel.
No. 30	St. Paul's Chapel.
Nos. 31 to 40	Dormitories and Commons, Arts and Theological Students
Nos. 45 to 48	Follansbee Village (Chinese style residences).
Nos. 49 & 50	Residences, Bungalow Style.
No. 51	Main Hall, School of Medicine.
Nos. 52 & 53	Laboratory Wings, Medical School.
No. 54	University Hospital.
No. 55	Out-Patient Dispensary.
Nos. 56 to 62	Dormitories and Commons, Medical Students.
Nos. 63 to 70	Residences, Foreign Style.
No. 71	Residences for Employees.
No. 72	Residence, Foreign Style.
No. 73	Dormitory, Women Students.
No. 74	School for Foreign Children (not University property).
No. 76	Home for Women Nurses.
No. 77	Home for Men Nurses.
No. 81	Arthington Institute (Extension Department).
No. 82	Residence, Foreign Style.

No. A	University Athletic Field.
No. B	Tennis Courts for Students.
No. C	Tennis Courts for Women Students.
No. D	Faculty Tennis Courts and Children's Playground.
No. F	Ch'i Ming Kindergarten (not University property).
Nos. H & I	Faculty Residences (rented Chinese houses).
No. J	Employees Residences (rented).
No. K	Tennis Courts for Students.
No. L	Basketball Court for Students.
No. M	Chinese Church (not University property).

SCOTT DEPOT

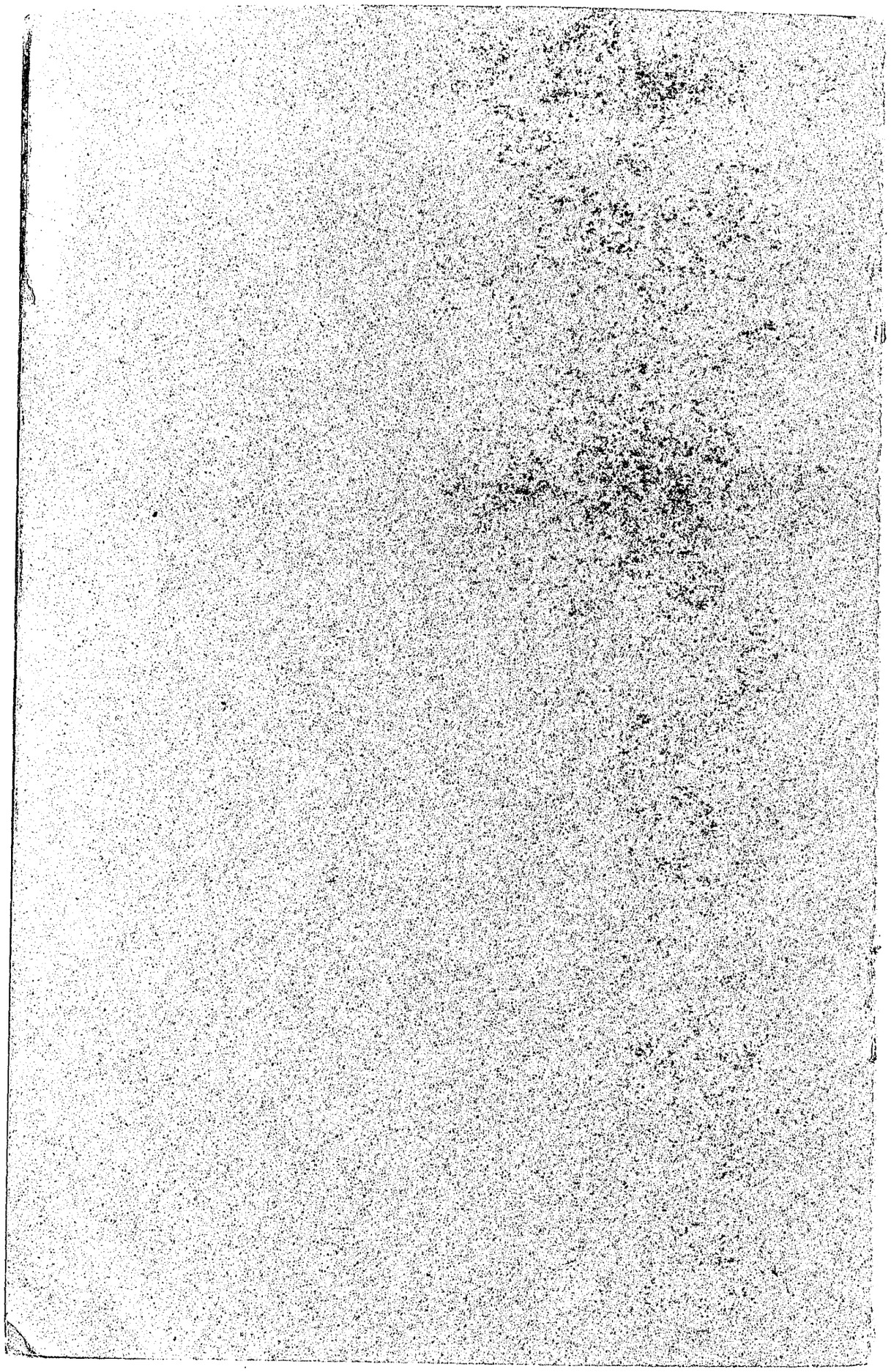
SHANTUNG CHRISTIAN UNIVERSITY BULLETIN

No. 48

ACTING-PRESIDENT'S REPORT

JUNE 1925

Printed at The University Press



Shantung Christian University

Acting-President's Report

1924-1925

To the Field Board of Managers and the Board of Governors.

Ladies and Gentlemen,

The year just completed has been one in which the work of the University, in common with all Christian effort in China, has been carried on amid an atmosphere of peculiar unrest. Militarism and brigandage are still unchecked; the anti-Christian movement and communist influences have specially affected workers and students; while the recent findings of the National Association for the Advancement of Education, together with the critical attitude of educational leaders generally toward institutions which are largely dependent upon foreign support, have been somewhat unsettling. These special conditions, however, have provided a lively stimulus to all concerned. We are recalled to a fresh study of our policies in the light of first principles. We feel the necessity to examine thoroughly the place and function of Christian education in China as it affects our own University, that due importance may be attached to Chinese thought, culture and customs. Accordingly it is with deep gratitude to God that we report a year of good work and steady progress.

All genuine friends of the University will be glad to learn of distinct advance in the carrying out of our common purpose to establish the closest possible relationships with churches and missions whom we seek to serve and upon whose loyal support must depend the success of our common enterprise. During the Ts'ing Ming holidays, April 3rd and 4th, a special *Conference* of representatives *of* the *Middle Schools* and the University was called, for the purpose of dealing with specific problems arising out of the arrangements for university entrance. The practical outcome of the Conference is of the utmost importance. It resulted in the formation of a Joint Council on University Entrance, and the determination of standards according to which the privilege of

being accredited by the University might be extended to Middle Schools. But the most significant feature of this occasion was that it was marked by an evident desire, on the part of both University and Middle School representatives, to arrive at a better mutual understanding as to our common problem. The Chairman of the newly formed Council is Principal R. C. Wells. We confidently expect great mutual benefit to come from this forward step.

A representative of the Department of Education, Mr. F. S. Drake, has been able during the year to give a considerable portion of his time to visiting Middle Schools throughout our constituency. In this way we have been able not only to render service to such schools but also to forge new links between them and the University.

In pursuance of its new policy with reference to religious education and the rural church, the School of Theology is making plans to devote a considerable portion of our school term to actual field work, in which both students and staff will be brought into close cooperation with churches and missions. It is felt that our students should be prepared to take their place in the instruction of the Church membership, and should learn the art of winning men by actually doing these things under close supervision by their teachers.

What has been already accomplished, however, only emphasizes the necessity for the adoption of practical measures by which those who represent the University may have greater opportunity for living contact with our constituency, especially is it to be desired that the genuine interest in and practical support of the University already shown by our alumni should be fostered and increased. One successful venture has been carried on throughout the year, with the needs of the Alumni specially in view, viz. the publication of the quarterly magazine "Cheeloo" under the direction of Mr. Chang Li-wen and Mr. B. A. Garside. It is our hope that more ready support for the enterprise will be forthcoming as our old graduates learn the value of keeping in close touch with the life of their alma mater through this medium.

The combined efforts of those interested in the proposal to provide for their families on the part of our growing Chinese staff, along with a substantial gift received through our late President, Dr. Jas. B. Neal, which gave expression to his keen concern for the welfare of each individual member, have made possible the erection of another suitable school building. All the educational needs of the children of the campus are thus met.

The one definite result of the changing conditions of the day is a distinct challenge to us to make possible conditions by which Chinese leadership can be developed within the University. It is time that we had ceased to *say* and *do* not. We feel that real progress has been made in the willingness and fitness of our Chinese colleagues to assume proprietorship and responsibility in the cause of Christian education, but neither loyalty to traditions inherited from the west nor adherence to educational policies and practices which have not been adapted to the peculiar needs of China must be allowed to stand in the way of more complete response to the needs of the people whom we serve. It is possible to follow the line of least resistance and take our cue from other educational institutions instead of seeking to develop a constructive policy suited to the special needs of our own constituency, and so fail to make the unique contribution which is expected of us, to the building up of the Church of Christ and the development of Christian education as a part of China's national system. It may be that from the above standpoint the time has come for a fresh study of the internal life and the general policy of the University, with a view to positive and constructive action.

During the year a number of discussion groups, meeting in an informal way, have been giving earnest consideration to issues involved in the life of such a union institution as ours. The results are most encouraging. They seem to indicate that our varied fellowship has not resulted in the loss of the unique contribution which might be made by particular groups in the University but that it has been the means of developing a corporate life which is greatly enriched by virtue of its variety.

During the spring term, owing to his enforced rest, we have been deprived of the strong and resourceful leadership of our President, Dr. Balme, who, however, while on route for England has done large service for the University in the United States and Canada. It is with gratitude that we learn of his gradual return to his wonted health and vigour.

University Charter and Board of Governors

On the 19th of July 1924 His Excellency the Governor-General of Canada affixed his signature to the Bill for Incorporation of Shantung Christian University. On the eve of the meeting of the Board we have just received information about the formation of the new "Board of Governors" of the University on April 7th. We note with satisfaction the accomplishment of this final step toward the carrying out of the plans for organization in connection with our new Charter. The addition of representatives from Boards and Societies not hitherto represented on the two Joint Boards, and especially the inclusion of three representatives from China, are significant of the University's growing influence and enlarged opportunity, as well as its determination to become a thoroughly Chinese institution. It is a cause for satisfaction that the American Board of Commissioners for Foreign Missions whose support on the field has already been of the greatest benefit to the University has now been formally incorporated in the Board of Governors. We earnestly hope that other Boards and Societies will take similar action.

Middle School

Unfortunately we are only able to report up to the present time that it has been impossible to open this school. The British Joint Board have offered to provide one half of the initial sum required for the undertaking. Efforts have been made to stimulate interest and to secure the other half of the necessary amount in North America, so far without success. It was felt that a portion of the total cost might be secured from local sources. Mr. F. S. Drake who has been entrusted with the organization of the school, has, however, given the major part of his time, exclusive of teaching, during the year, to visiting Middle Schools, with the result that he has been unable to find sufficient opportunity for contact with the local constituency in and about Tsinan, which requires a large expenditure of time and energy. Consequently that source of income has not given much promise as yet. We would again urge upon the attention of the Field Board the importance of this project. The University Middle School will be much more than a practice school for the Department of Education, though from that standpoint alone, it would be impossible to exaggerate the importance of its being opened without further delay.

Religious Life

Increasing complexity of organization, on our campus, as elsewhere, tends to lessen the occasions for natural contact between individual students and teachers. An experienced worker amongst students has recently reported that a series of interviews with teachers in colleges in China has convinced him that what our students are most in need of is simple friendliness, on the part of teachers and others with whom they mingle. At this time when many cross-currents meet in conflict in student life, our students have not escaped certain influences which tend to perplex and disturb them. We note, however, evidences of increasing seriousness of purpose on the part of many. The more extended visit of Dr. H. T. Hodgkin, as also the visits of Dr. C. Y. Cheng, Dr. Cleland B. McAfee and others to the University have left a distinct impression upon the religious life of the student body. Toward the end of the year a marked increase in the willingness of students to serve in the Social Centre and to do religious work has been an encouraging feature. The Extension Department, the city Y. W. C. A. and Y. M. C. A., the Social Centre, as well as the different preaching chapels in the city, have afforded an opportunity for real community service on the part of our students. Both staff and students have visited schools, mission stations and such centres as Lungshan. The usual activities have been prosecuted with ever-increasing points of contact.

The worshipful character of our various religious services is in marked contrast to what exists in many churches and ought to leave upon graduating students a lasting impression.

Students exhibit a keen interest in the ethical aspects of international questions. Recent attacks upon Christianity in China, from the point of view of its external associations, have increased the interest of our better students in the real meaning of Christ and His message and should in the end, therefore, be turned to good account.

University Athletics

The energy and enthusiasm of Mr. Li Wen Chang, Physical Director, together with good training done by our students, have combined to produce excellent results. The North China Athletic Meet was

held in Tsinan in April. We were gratified to see our athletes and student body alike exhibit good sportsmanship and take their places with credit. A group of medical students showed their initiative by conducting a lunch and tea-room for visitors to the Meet. Our competitors captured first place in the college division for Cheeloo, while no less than seven of them were selected to compete in the All-China Meet at Shanghai. Of these, in turn, six qualified for the Far-Eastern Olympic at Manila.

It should be noted, too, that better provision is being made year by year for the care of the general health of staff and students. Dr. C. H. Han, as health officer, and the Medical Staff have rendered a most useful service to the University by the adoption of thoroughly efficient and up-to-date preventive measures.

Staff Changes

In the School of Arts and Science Mr. F. S. Drake B. A., B. D., after an extended furlough with post-graduate study as a special preparation, has taken up his new work both in the Department of Education and in connection with the directorship of the University Middle School with characteristic enthusiasm. In the Department of Chinese we have suffered the loss through death of Mr. Yu Lan Chow, a teacher respected alike for his character and scholarship. During the spring term we have been able to secure the services of Mr. Chang Mo Sheng, a graduate of Peking Normal University, and Mr. Lan T'iao Fu, both of whom are well qualified to meet the requirements of today for special emphasis upon Chinese language and literature.

The teaching of English has been greatly strengthened by the appointment of Mr. D. C. Baker, B. L., M. A., who represents the North China Conference of the Methodist Episcopal Church. Dr. E. C. Tucker, B.A., Ph.D. and Miss E.M. King, B.A., though with us for the year only, have carried a full schedule of teaching and made their distinct contribution to University life. The Rev. D. C. Butler A. B., A. M., Th. B., of the American Presbyterian Board, is spending a year in the language school at Peking preparatory to entering upon the teaching of English in the autumn. The Rev. Joseph M. Woods M. A. has been appointed as contract teacher for a term of three years and is to enter upon his duties in the autumn.

The staff of the School of Theology has been augmented by the coming of Rev. S. C. Harrisson, B. D., who in, addition to his teaching, has rendered invaluable assistance in connection with the music for our different chapel services. A further reason for gratification is the designation to this school by the General Mission Board of the Church of the Brethren of the Rev. Maynard L. Cassady, M. A., B. D. a graduate of Princeton University, who has pursued post-graduate studies in Oxford and on the Continent.

The resignation of the Rev. E. W. Burt, M. A., the Nestor of our Theological Faculty, was received with keen regret. His twenty years of invaluable service to the University is worthy of the highest recognition. We unite with the Board of Governors in expressing the hope that his new position "may permit his lecturing from time to time in the School of Theology".

The whole University is under a deep debt of obligiation to Dr. Luella Miner for her willingness to return to us at the turn of the year to continue her work in the School of Theology and to assume the position of Dean of Women which was made vacant by the death of Dr. Eliza Leonard.

The School of Medicine has been called upon to suffer the loss through death of Dr. Eliza E. Leonard, whose contribution toward the uplift of China's womanhood and especially toward medical education for women is unique amongst Protestant Missions in China. Her Christian character, broad vision, courage to adventure, and steady faith are an abiding treasure in the lives of all with whom she came in contact. Her name will always be closely associated with the initiation of coeducation in this University. Happy the Mission and the institutions which have provided a sphere for her gracious service, for her works do follow her and their fruits will abide.

Owing to the continued ill- health of Mrs. Ellis, she and Dr. Ellis have been reluctantly compelled, much to our regret, to sever their connection with the University and return to England. Miss Ethel Pollard, after an extended period of absence from the Hospital nursing staff, was able to return in February.

Mr. T'ang En Liang has finally felt compelled to tender his resignation as assistant director of the Extension Department. Continued illness and bereavement in his family have called forth the

sympathy of the whole community. We are hopeful that Mr. T'ang's valuable counsel and assistance may still be available, though he ceases to have official relationship with the University.

Mr. D. D. Parker B. A. has returned to America and Mr. John C. B. Kuei, B. A. has been appointed librarian.

The University has found it necessary to accept the resignation of Mr. Paul C. Cassat as Treasurer, on account of his failure to receive medical sanction for a return to the field. The generally satisfactory condition of the finances of the institution is largely due to his efficient administration. His contribution to the development of the University, in China and at home, has been felt far beyond the bounds of what might strictly speaking be expected of a treasurer. We feel confident that in the new position to which Mr. Cassat has been appointed he will remain as before a genuine friend upon whom the University can count for fruitful effort on its behalf.

It only remains to make mention of the passing, on Feb. 4th, of our beloved friend and late President, James Boyd Neal, M. A., M. D. In all that had to do with the expansion of Medical Mission work in China, especially in the training of doctors and nurses and nurses and the translation of important works on modern medicine Dr. Neal played a conspicuous part throughout his remarkable missionary career of nearly 40 years. At the time when he was compelled to resign the office of President of the University, owing to delicate health brought on by overwork, the Board of Managers recalled "with gratitude to God the courage and devotion with which Dr. Neal undertook and performed the difficult duties of the President's office, and other serious administrative tasks, during this important period in the life of the University."

The Memorial Minute passed by the Presbyterian Board of Foreign Missions is a remarkable tribute to the abiding influence of this royal soul: "Loved and esteemed by all who knew him, Dr. Neal's forty years of service won many friends and effected large and lasting influence for Christian missions. With earnest devotion, he gave himself wholeheartedly to the work, placing his rare and highly developed talents without reserve at the disposal of his Master. His life radiated the finest Christian courtesy, understanding and good-will; his rich and true personality was used of God for the blessing of thousand of lives with

which he as a Christian physician and executive came into intimate contact. The life of James Boyd Neal abounded in 'the fruits of the Spirit, love, joy, peace, long-suffering, gentleness, goodness, faithfulness, meekness, self-control'. He bore others burdens and so fulfilled the law of Christ. We that remain behind miss him sorely. To his beloved wife who shared his life and work with fullest sempathy and with close and helpful cooperation, the Board expresses its deep condolence and it prays that in her great loss and loneliness she may be richly sustained and comforted by our Father in Heaven."

Enrolment of Students

Our total enrolment during the autumn term amounted to 329, divided as follows:—

School of Arts and Science . .	199
" " Theologr	28
" " Medicine	102

The spring term was marked by a considerable reduction in our total attendance. Thirty-seven students have graduated from the University during the year, ten in the School of Medicine, twenty-six in the School of Arts and Science, and one in the School of Theology. While it is evident that quality in scholarship and character must be a first consideration yet it seems urgent that the numbers in attendance in all schools should be increased. The present staff, whether in administration or instruction, could well take care of larger numbers and thus promote economy in the conduct of the institution as a whole. Good results, in this connection, are anticipated from the application of our new entrance regulations. The churches and missions are demanding a larger supply of graduates as doctors, teachers and ministers. In particular the number of students entering upon the study of theology (though we have some 30 volunteers among our undergraduates), ought to be greatly increased. This is not a problem bearing upon the under-graduate life of our students alone. There appears to be an absence of positive plans, in many missions and churches, whereby the challenge of a definite sphere for a life-work within the church, can be presented to students entering the University. Moreover students hesitate to graduate into the ministry until they can confidently look forward to association with fellow-workers, Chinese

and western, who will take up toward them an attitude of sympathy and understanding. Missions continue to look to the West for a fresh supply of workers, whereas the willingness on their part to offer responsible positions to Chinese graduates where they could exercise initiative and share the burden of an overworked foreign staff, would itself provide an additional incentive to students to study for the ministry.

University Finance

We beg to report that negotiations are being carried on with the China Medical Board with a view to securing a substantial grant for the Pre-Medical Department. There is included in the appeal a request for funds for both capital equipment and annual maintenance. In connection with this new arrangement it is proposed that the $6,000 now given from the budget of the School of Medicine for pre-medical education, shall be discontinued and that this sum shall be obtained through redistribution of certain funds now appropriated to the School of Medicine, which will hereafter go direct to the School of Arts and Science for the departments of Biology, Chemistry and Physics. The advantage of this change will be that funds already used for this purpose will be applied direct to the use for which they are intended so that the School of Medicine will no longer appear to appropriate a part of its own funds for premedical work.

It is difficult to give adequate expression to our gratitude to the China Medical Board for their further grant of $25,000 gold just to hand, in addition to the sums granted to the Medical School in 1923. The supporters of the former Women's School have made, through the Women's Committee, a handsome contribution amounting to a total of $170,000 gold, for which we are alike grateful. The additional $10,000 gold from other University sources has also been secured, thus making it possible to proceed with the erection of the new hospital as soon as present difficulties in connection with the purchase of the site can be overcome.

We beg to record a further generous gift of $1,000 U. S. currency as a final contribution to the cost of the Kumler Memorial Chapel, from Mrs. W. M. McKelvy, East Liberty Church, Pittsburg. We are indebted to Dr. J. Ackerman Coles of New Jersey for the highly

suitable gift of a chapel bell, which was installed at the Christmas season. Dr. S. Cochran has generously placed at the disposal of the whole University a gift obtained from friends in New York. This has made possible the provision of a heating plant for the dormitories of the School of Arts and Science and the School of Theology, which contributes materially to the health and comfort of the students.

The Library maintenance which for some time has been a source of concern, has now been provided for through the generous undertaking of Augustine Presbyterian Church, Winnipeg, Canada, to contribute the sum of at least $1200 gold per annum. This further proof of the practical interest of that congregation in the cause of Christian education is worthy of emulation. It ought to be pointed out however that if our library facilities are to be made adequate to the needs of a growing University, considerable sums of money must be made available for the actual purchase of books year by year, over and above the cost of maintenance.

The Treasurer's statement, as presented, indicates that we are required to carry certain overdrafts in connection with Science Departments in the School of Arts and Science. It also shows certain deficits in connection with annual maintenance due in part to failure to receive funds included as assets within the Budget, which latter fact seems to emphasize the importance of careful scrutiny of resources in making the annual budget. It is unwise to have entered in the budget as parts of our income sums for which no actual resources have been guaranteed.

Recent changes effected in the organization of the University serve to recall our debt of gratitude to the two Joint Boards which are now merged in the new Board of Governors. In particular we note that Dr. Geo. T. Scott, secretary, since its inception, to the North American Joint Board, now terminates this official connection with the University. It is entirely fitting that the Field Board should place on record a minute of appreciation for his invaluable services in that capacity. The continued loyal support of co-operating Mission Boards and Societies in Great Britain and North America, at a time when financial stringency has made it necessary to husband their resources, in every field, deserves our sincere gratitude.

Some of the most urgent needs of the University will be dealt with by the various admistrative officers in their individual reports.

One outstanding need, though not a new one, is that of the addition of Chinese members of staff. The American Presbyterian Board (North), has led the way in willingness to grant a definite sum of money for such a purpose, where a vacancy occurs in the regular quota of its missionaries. If, however, the University is to attract and retain an increasing number of capable Chinese it is essential that the entire financial support now appropriated to the University be made thoroughly fluid so that it will be at the disposal of the administrative officers and the Field Board. Only in this way will it become possible so to constitute the staff of the institution as to suit the conditions of our changing day. The beginning already made by the Presbyterian Board in giving effect to this policy should be so extended that the full equivalent of the cost of maintenance of the missionary should in all such cases be available for use as the University sees fit. We earnestly hope that other missions will adopt a similar policy.

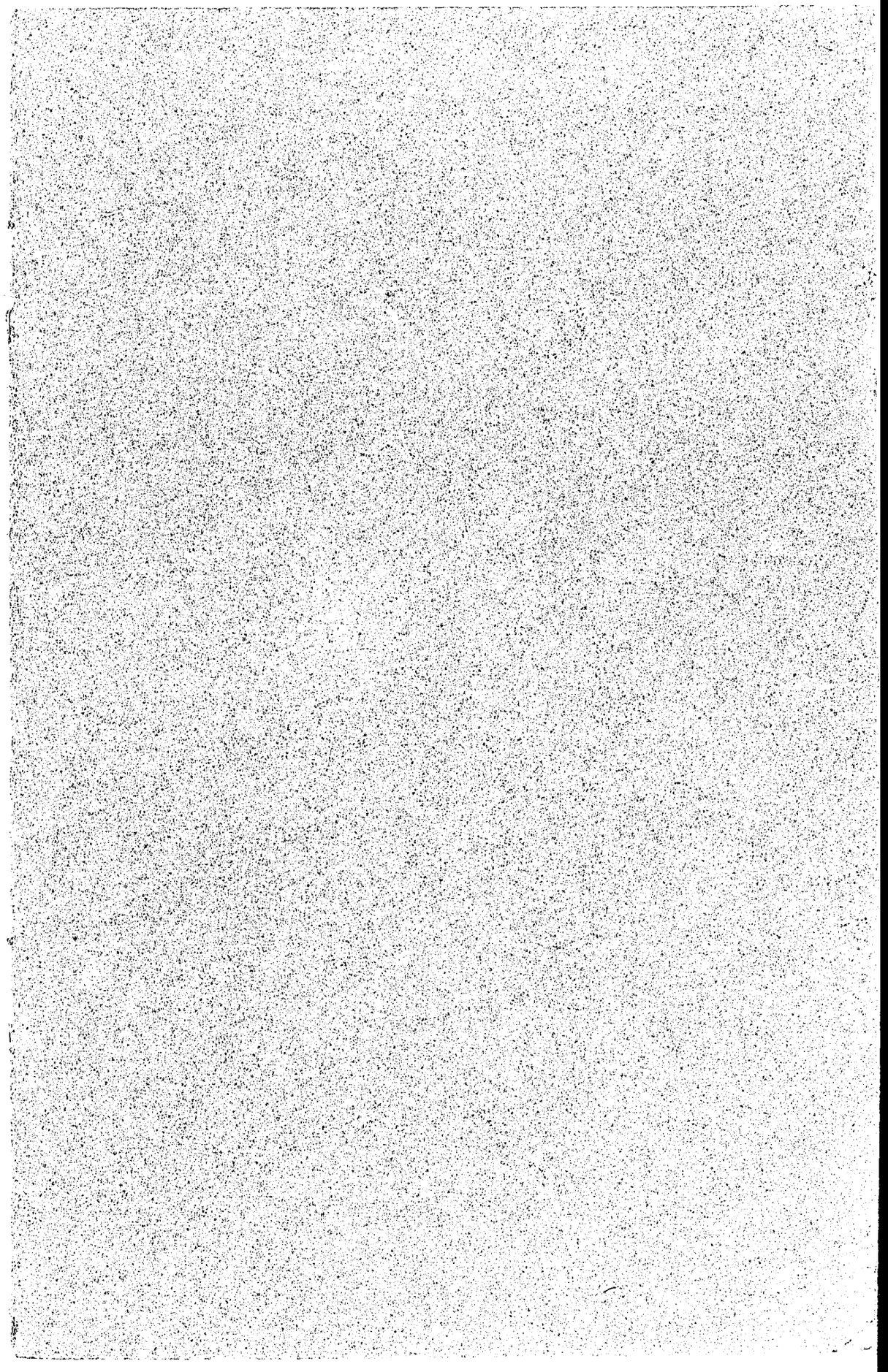
While we continue our efforts to secure financial support in China, it must be remembered that much of our work is of a kind which does not naturally make large popular appeal to our local constituency, for its contributions in money. Moreover the burden of raising funds for annual maintenance will only become greater with the addition of new departments and general expansion, unless endowment funds can be obtained both in China and the West. Further a careful study should be made of ways by which financial support from abroad can be continued without its being too largely conditioned by foreign control.

The present is emphatically a time when there is a clarion call for a greatly increased number of graduates; pastors, teachers, physicians, social workers, men and women, who while they possess a genuine personal experience and "maintain the spiritual glow" are at the same time qualified to make adequate presentation of the Christian religion on its intellectual side. In response to such a summons the University continues to address itself, with high hope to its sacred task to provide *Christian* education for the *people* of China.

Respectfully submitted,

J. D. MACRAE.

Acting President.



SHANTUNG CHRISTIAN UNIVERSITY

TSINAN, CHINA

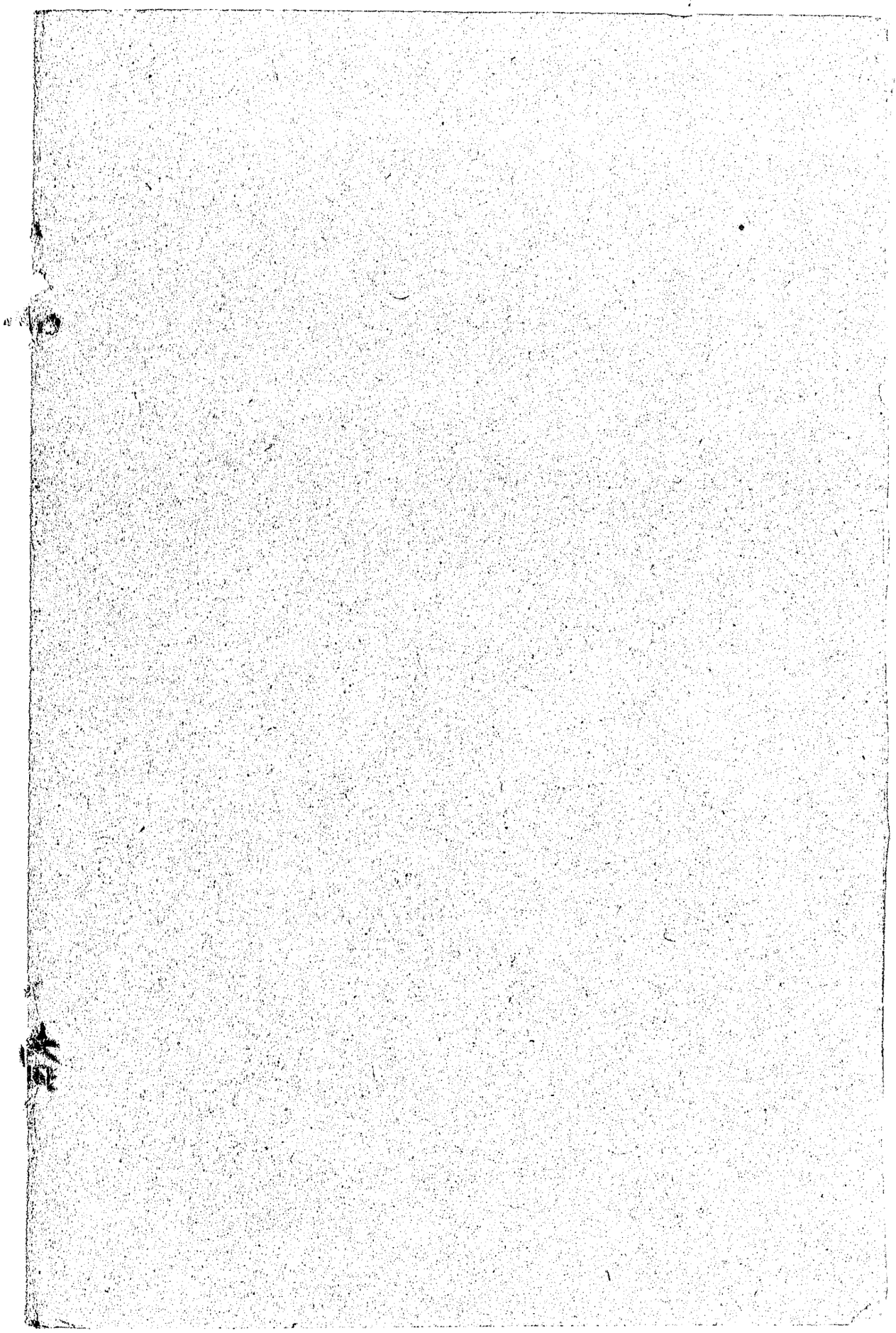
BULLETIN OF

THE SCHOOL OF MEDICINE

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UNIVERSITY BULLETIN NO. 48

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SCHOOL OF MEDICINE

School of Medicine Calendar for 1925-26-27.

1925	
September 17th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.
September 21st, Monday	Confucius' Birthday.
October 9th, 10th Fri., Sat.	National Holidays. Inter-Middle School Track & Field Meet.
December 24th, 25th, 26th, Thurs., Fri., Sat.	Christmas Holidays.
1926	
January 1st, Friday	New Year's Holiday
January 28th, Thursday	Fall Semester closes.
February 13th, Saturday	Chinese New Year.
February 18th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 19th, Friday	Recitations begin.
April 2nd	Good Friday.
April 4th, 5th, 6th, Sun., Mon., Tues.	Tsing Ming Holidays.
April 24th, Saturday	Field Day.
May 9th, Sunday	National Humiliation Day.
June 5th, Saturday	Last day for receiving applications for Entrance Examinations.
June 16th, Wednesday	Spring Semester closes. Commencement Exercises 10 a.m.
June 23rd, 24th, 25th, Wed., Thurs., Fri.	Entrance Examinations Medical School.
July 5th, 6th, 7th Mon., Tues., Wed.	Entrance Examinations.
September 16th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.
September 17th, Friday	Classes begin.
October 4th, Monday	Confucius' Birthday.
October 9th, 10th, 11th, Sat., Sun., Mon.	National Holidays.

December 24th, 25th, 26th, Fri., Sat., Sun.	Christmas Holidays.
1927	
January 1st, Saturday	New Year's Holiday.
January 19th, Wednesday	Fall Semester closes.
February 2nd, Tuesday	Chinese New Year.
February 10th, Thursday	Spring Semester opens. Registration and payment of fees, all schools.
February 11th, Friday	Classes begin.
April 5th, 6th, 7th	Tsing Ming Holidays.
April 15th	Good Friday.
April 23rd, Saturday	Field Day.
May 9th, Monday	National Humiliation Day.
June 4th, Saturday	Last day for receiving applications for Entrance Exminations.
June 15th, Wednesday	Spring Semester closes. Commencement Exercises 10 a.m.
June 22nd, 23rd, 24th, Wed., Thurs., Fri.	Entrance Examinations Medical School.
July 4th, 5th, 6th, Mon., Tues., Wed.	Entrance Examinations.
September 15th, Thursday	Fall Semester opens. Registration and payment of fees, all schools.

SCHOOL OF MEDICINE
FACULTY AND INSTRUCTORS

HAROLD BALME, F. R. C. S. (Eng.), D. P. H. (Lond.), *President of the Shantung Christian University.* Professor of Surgery.

*SAMUEL COCHRAN, A. B., (Princeton), M. D. (Columbia), *Dean of the School of Medicine.* Professor of Bacteriology.

EDWIN ROBERT WHEELER, M. B., B. S. (Lond.), F. R. C. S. (Eng.), *Superintendent of the University Hospital.* Professor of Surgery.

LOUIS HENRY BRAAFLADT, Ph. D., M. D., (Chicago Univ.), Professor of Pathology.

CHI-HSIEN CHANG, Graduate in Medicine of Shantung Christian University, Instructor in Bacteriology.

DAVID J. EVANS, M. B., Ch. M., (Birmingham), Instructor in Surgery, Otology, Rhinology, Laryngology.

PHILIP SAFFERY EVANS, Jr, B. A. (Yale), M. D. (Johns Hopkins), Professor of Physiology.

CHUNG-HSIN HAN, Graduate in Medicine, Shantung Christian University, Diploma Hygiene (Cantab.), D. T. M. & H. (Eng.), Assistant Professor of Public Health.

FRANCES J. HEATH, A. B. (Temple University), M. D. (Women's Med. Coll. of Penn.), Professor of Obstetrics.

LEROY F. HEIMBURGER, M. D., (University of St. Louis,) Associate Professor of Dermatology.

PAO-CHANG HOU, M. D. (P. U. M. C.,) (Graduate in Medicine, Shantung Christian University,) Registered Physician (Department of Interior), Assistant Professor of Pathology.

*LAURENCE MANSFIELD INGLE, B. A., M. B., Ch. B. (Cantab.), Associate Professor of Anatomy.

PETER C. KIANG, A. B., (St. John's), M. D. (Univ. of Penn.), Professor of Biological Chemistry and Toxicology.

PERCY LONSDALE McALL, B. A. (Cantab.), M. B., Ch. B. (Edin.), Head of Translation Department.

WILLIAM McCLURE, B. A., M. D., C. M. (McGill), Professor of Internal Medicine.

JULIA MORGAN, A. B., M. A., (Dickinson College), M. D. (Univ. of Penn.), Instructor in Medicine.

*FRANCIS HENRY MOSSE, M. A., (Oxon.), M. R. C. P. (Lond.), Associate Professor of Internal Medicine.

TA-CHIH PA, M. D. ((Graduate in Medicine, Peking Union Medical College), Assistant Professor of Ophthalmology.

*WILLIAM PERCY PAILING, Ph. C., M. P. S., B. D. (Lond.), Associate Professor of Pharmacy & Materia Medica.

*ANNIE V. SCOTT, B. S. (Univ. N. Carolina), M. D. (Women's Med. Coll. of Penn.), Associate Professor of Pediatrics.

RANDOLPH TUCKER SHIELDS, B. A. (Washington & Lee), M. D. (Med. Coll. Virginia), Professor of Histology & Embryology.

† THORNTON STEARNS, B. A., (Davidson), M. D. (Johns Hopkins), F. A. C. S., Associate Professor of Orthopedics & General Surgery.

ERNEST B. STRUTHERS, B. A., M. B. (Toronto), D. T. M. & H. (Eng.), Associate Professor of Internal Medicine.

* SUSAN SHARPE WADDELL, A. B. (Wilson College). M. D. (Univ. of Pittsburg). Associate Professor of Physiology & Pharmacology.

HWEI-WEN WANG, Graduate in Medicine, Shantung Christian University, Assistant Professor of Anatomy.

HENRY W. S. WRIGHT, M. B., M. S. (Lond.), F. R. C. S. (Eng.), Associate Professor of Urology and General Surgery.

HELENA R. WRIGHT, M. B., B. S., (Lond.), M. R. C. S. (Eng.), Associate Professor of Gynaecology.

CHUAN PING YANG, M. D. (Peking Union Medical College,) Registered Physician (Dept. of Interior). Instructor in Dermatology.

FU-HSIN YU, Assistant, Clinical Laboratory.

PIN YEN, Assistant, Clinical Laboratory.

HUI-CHUAN CHANG, Assistant in Histology & Embryology.

PAO-HO HSU, Demonstrator in Biological Chemistry.

FRANK H. B. HARMON, Business Manager Medical School and Hospital.

MAIDA MORTON SMITH. Secretary to Dean of the Medical School.

*On furlough 1925-26
†At Peking Union Medical College

INTRODUCTION

The School of Medicine of the Shantung Christian University was established in 1909 by the English Baptist Mission and the American Presbyterian Mission, North, the original buildings and hospital being erected from funds contributed by the English Baptist Mission, and the institution being known at that time as the Union Medical College. To this college the China Medical Board, in the year 1916, transferred three classes of students from the former Peking Union Medical College, at the same time making a grant of $50,000 for further buildings and equipment, and an annual subsidy of $20,000 for five years towards the expense of upkeep. In addition to this, a supplemental grant of $50,000 was made to cover depreciation in exchange.

In 1916-1917, on the recommendation of the Council of Medical Education of the China Medical Missionary Association, the Medical Department of the University of Nanking and the Hankow Medical College also transferred their students to Tsinan, together with some of their professors, so that the present School of Medicine now represents an amalgamation of the above institutions.

During the academic year of 1923-24 a union was effected between this school and the North China Union Medical College for Women. In September 1923 women students were admitted to the entering class of the Medical School and into both classes in the Pre-medical. In February 1924 two other classes were transferred from Peking to Tsinan. Five members of the Faculty of the Union Medical School for Women were added to the Faculty of the Medical Department of the Shantung Christian University to form a common body.

In 1924 the University was granted a charter by Act of the Parliament of Canada, and in April 1925 the Board of Governors was organised in New York. Under this charter the University is authorised to confer the usual academic degrees.

The administration of the School is in the hands of the Boards of Directors of the Shantung Christian University, consisting of the Board of Governors, with offices in New York and London, and the Field Board of Managers, each being composed of representatives of the cooperating missions, together with certain educational experts specially

co-opted. Ten Missions are now co-operating in the School, to a greater or less degree, four being English, five American and one Canadian. These Missions are the following:-

English: Baptist Missionary Society,
Society for the Propagation of the Gospel.
London Missionary Society.
Wesleyan Missionary Society.

American: American Presbyterian Mission, North.
American Presbyterian Mission, South.
American Methodist Mission, North.
Lutheran United Mission.
Women's Foreign Missionary Society of the Methodist Episcopal Church North.

Canadian: Canadian Presbyterian Mission.

The internal administration of the School is in the hands of the Dean and Faculty.

In addition to the above organizations which are supporting the School of Medicine, the China Medical Board has been making a generous appropriation annually. The School is also receiving a regular annual appropriation from the Shantung Provincial Assembly.

GENERAL STATEMENT

The School of Medicine is situated on the Medical Campus in the South Suburb of Tsinan, adjoining the general University Campus, from which it is only separated by the suburb wall.

The main school building consists of a large three-story central block, with east and west laboratory wings, In addition to class-rooms, the building contains large well-lighted laboratories devoted to Biological Chemistry, Pharmacy and Pharmacology, Histology and Embryology, Pathology and Bacteriology, and the Department of Anatomy, (and Dissection). A special laboratory is set apart for the routine examination of specimens from patients in the hospital. The medical branch of the University Library, containing reference books and an adequate assortment of current periodicals, is lodged in the central medical

building. The Laboratory of Physiology and the offices of the Department of Preventive Medicine are accommodated on the main University campus outside the suburb.

Adjoining the School of Medicine is the University Hospital and Dispensary, with a frontage of 400 feet. The Hospital, which was erected in 1915, provides accommodation for 105 patients. Funds are now in hand for a new hospital of 200 beds. When completed, the present hospital will be used for additional out-patient accommodation. The Out-patient Dispensary consists of central waiting room, with consulting rooms for the different departments and a laboratory for routine examinations, and operating rooms for surgical and ophthalmic out-patients. The Department of Roentgenology is also situated in this building.

Opposite the Hospital is a Hostel for twenty-five male patients, for the accommodation of those well enough to be discharged from the wards but needing further treatment.

The School of Medicine possesses dormitories and a students' commons for the men students, adjoining the teaching buildings. The women students are lodged on the University Campus outside the Suburb wall in a building containing sleeping rooms, study hall, social room and dining room. It is equipped with modern plumbing and lighted by electricity.

Besides the above buildings, residences are provided for the members of the staff.

In addition to the Medical School there is, connected with the Hospital, a Nursing School for both men and women nurses. The nurses are lodged outside the hospital in well-equipped dormitories. Inquiries in regard to Nurses' Training Courses may be addressed to,

The Superintendent of Nurses,
University Hospital,
Shantung Christian University,
Tsinan.

ADMISSION TO SCHOOL OF MEDICINE

For admission to the Medical School the following qualifications are required:—

(a) The candidate must have graduated from a six-year middle school or have done equivalent work. (For standards as to work which should be covered in the middle school, see University Bulletin, No. 45, "Syllabus of Middle School Subjects", pages 8-15).

(b) Following graduation from middle school, the candidate must have done two years work in a recognised institution of college grade, including a minimum amount of work in the various subjects as shown by the schedule of Entrance Requirements included below. These courses may be taken in the Pre-Medical Department of Shantung Christian University, for admission to which see pages 5 to 15 of University Bulletin No. 45. The Pre-Medical course of study may also be taken in other recognised institutions of suitable grade which provide the requisite amount of laboratory work in each subject. In all cases, however, graduates of Pre-Medical courses, *either of this or other universities*, will be required to present themselves for the entrance examination of the School of Medicine at the conclusion of the Pre-Medical work.

Entrance examinations are held in June of each year. Previous to the time of taking the Entrance Examination, a formal application for examination and a Medical Certificate must be filed with the Registrar of the University. The forms for these may be had on application to the Registrar's office. For dates of examination and filing applications see the calendar on page 1. Except in the case of students claiming advanced standing, no student will be admitted later than two weeks after the opening of college in September.

The examinations are held in Tsinan, but arrangements may be made for examination at other places if the number of candidates warrants it.

Men and women students are admitted to the school on the same terms.

To be admitted to the examination a candidate must (1) bring evidence that he has graduated from an approved Middle School or has done equivalent work; (2) bring evidence from the college where the pre-medical work was done as to good character, and that the subjects specified below have been covered; this record should include the courses studied, the time occupied in each subject and the grades secured; (3) submit laboratory note-books, signed by the instructor, for the Biology, Chemistry and Physics courses.

ENTRANCE REQUIREMENTS

Biology: One paper.

Pre-requisite: At least one year of college grade work in General Biology and a year's work in General Zoology. This should represent not less than twelve credit hours*; of this time not less than a total of 250 hours should be spent in laboratory work.

*A credit hour is one hour a week in recitation or lecture, or two hours a week in laboratory over a semester of sixteen weeks.

The work as conducted at Shantung Christian University is based on:

First Year: Shull, Principles of Animal Biology, McGraw Hill Book Co.

Woodruff, Foundation of Biology, Macmillan Co.

Second Year: Thomson's Outlines of Zoology, Hodder & Stoughton.

Reese, Introduction to Vertebrate Embryology, Frog only. G. P. Putnam. Translation: Presb. Mission Press.

Pratt, Vertebrate Zoology [Sections on the dogfish, frog, turtle, bird and mammal, especially the latter.] Ginn & Co.

Physics: One paper.

Pre-requisite: A course of general physics of college grade occupying at least 16 credit hours. Of this not less than 125 hours must be spent in the laboratory doing individual work and receiving individual instruction.

In general, it is suggested that the work covered in the laboratory

should follow Millikan's "Mechanics, Molecular Physics and Heat" and Millikan & Mill's "Electricity, Light and Sound."

For general reading and lectures, Kimball's "College Physics" and Millikan and Gale's "First Course in Physics" is suggested.

Chemistry: One Paper.

Pre-requisite: Four terms of laboratory work, covering General Chemistry, Qualitative and Quantitative Analysis, Organic Chemistry. The aim of the work in Chemistry should be to train the student to think in terms of modern chemical concepts and to familiarize him with methods of laboratory study. The total requirement in Chemistry is reckoned as a minimum of twenty credit hours. It is suggested that Pre-Medical Chemistry pursue the method and cover the ground represented in the following texts:-

McPherson & Henderson: General Chemistry.
McPherson & Henderson: Laboratory Manual.
Noyes: Qualitative Chemical Analysis (metals only).
Chapin: Second Year College Chemistry.
Chapin: Exercises in Second Year Chemistry.
Talbot: Quantitative Chemical Analysis (selections from this text).
Cohen: Theoretical Organic Chemistry.
Fisher: Laboratory Manual of Organic Chemistry (shorter course).

Chinese: Students are expected to have studied Chu Dzi 朱子 and Chinese Composition.

One examination with be held in Chinese Composition, which paper will be set to test their fluency and neatness in the literary style. Compositions must contain at least three hundred and fifty characters and the subject will be selected from the work studied as stated above.

English: One paper.

Pre-requisite: A student should have 16 credit hours for college English after at least four years of Middle School study in that subject. The examination is a test of his ability to use English correctly rather than a test of his knowledge of the rules of grammar, composition, etc.

Physical Examination: A Physical Examination is required of all applicants for admission and admission may be refused on the basis of ill health.

ADVANCED STANDING

At the discretion of the Faculty, students from other medical schools of recognized standing will be received into the upper classes of the Medical School upon the following conditions:—

1. That they present evidence of having fulfilled the entrance requirements, and of having spent as many years in medical study as they desire credit for.

2. That they pass examinations in the subjects for which they desire advanced standing.

COURSE OF STUDY—SCHOOL OF MEDICINE

Instruction is given mainly in Mandarin. Students are encouraged to use English text books and every effort is made to enable them to familiarize themselves with medical terminology in English. It is expected that graduates of the School will be able to continue their medical studies in English after graduation. Students on duty in the hospital record the patients' clinical histories in English.

REQUIREMENTS FOR GRADUATION

In order to graduate, a student must have fulfilled the requirements for entrance as above described, and spent five years of 36 weeks each in medical study. He must have passed creditable examinations in the course of study outlined below. The student must satisfy his instructors not only that he has technical ability, but also that he shows due diligence and faithfulness in the discharge of his duties, and that he maintains a proper attitude towards his patients.

SCHEDULE OF COURSES

The following is the schedule of studies at present in force:—

FIRST YEAR

First Semester	Hours	*Second Semester*	Hours
Embryology (Anat. 7)	56	Histology (Anat. 7)	123
Histology	72	Anatomy (2)	160
Phys. Chemistry (1)	192	Physiology (2)	144
Anatomy (1)	160	Materia Medica	48
Clin. Medicine (3) & Surgery	16	Clin. Medicine (3) & Surgery	16
English	64	English	64

SECOND YEAR

First Semester	Hours	*Second Semester*	Hours
Anatomy (3)	96	Anatomy (4)	96
Physiology (3)	112	Pathology (4)	192
Pathology (3)	112	Pharmacy (2)	32
Bacteriology (Path. 1)	144	Pharmacology (2)	96
Infectious Diseases (Med. 1)	32	Physical Diagnosis (Med. 2)	48
Clin. Medicine (3 & 4) & Surg.	16	Parasitology	32
English	64	Clinical Medicine (3 & 4) & Surg.	16
		English	64

THIRD YEAR

First Semester	Hours	*Second Semester*	Hours
Laboratory Diagnosis (Med. 9)	96	Medicine (5 & 6)	64
Medicine (5 & 6)	64	Surgery (2)	64
Surgery (1)	64	Applied Anatomy (5)	48
Ophthalmology (1 & 2)	32	Ophthalmology (1 & 2)	32
Obstetrics	32	Obstetrics	48
Dermatology (1)	16	Dermatology (1)	16
Pediatrics (1)	16	Syphilology (1)	16
Clinical Work, Medicine (3)	80	Pediatrics (1)	16
" " Surgery (5)	80	Preventive Medicine (2)	16
English	64	Clinical Work, Medicine (3)	80
		" " Surgery (5)	80
		English	64

FOURTH YEAR

First Semester	Hours	*Second Semester*	Hours
Therapeutics (Med. 10)	64	Neurology (Med. 11)	80
Gynaecology	32	Pediatrics (2)	32

Pediatrics (2)	32	Preventive Medicine (4)	32
Preventive Medicine (3)	32	Medicine (11, 12, 13, 14,) (inc. Psychiatry, Forensic Med.)	64
Medicine (11, 12, 13, 14)	64	Surgery (4)	80
Surgery (3)	80	Ear, Nose & Throat (Surg. 4)	16
Clinical Work	240	X-Ray Diagnosis	8
		Clinical Work	240

FIFTH YEAR

First Semester	Hours	*Second Semester*	Hours
Neurology (Med. 10)	64	Surgical Pathology (10)	64
Operative Surgery (6) (half the class)	48	Operative Surgery (6) (half the class)	48
Clinical Lectures, Medicine	40	Clinical Lectures, Medicine	40
" " Surgery (5)	40	" " Surgery (5)	40
Practical Clinical Work in Wards, Operating Room and Out-patient Department-Minimum (estimated)	312	Practical Clinical Work in Wards, Operating Room and Out-patient Department-Minimum (estimated)	312

The work of the fifth year is largely practical in nature, the students being assigned cases in the wards, whose histories they record, for whom they make the routine laboratory examinations and whose treatment they observe under direction of the clinical staff. They also assist in turn at operations and attend the Out-patient Department in small sections, assisting the clinical staff in the treatment of patients. Students in the fifth year are encouraged to take elective courses in various subjects, to be arranged with the heads of the departments, such courses not to occupy more than one-third of their time.

PRIZES

Doggart Prize. From funds contributed by Mr. A. R. Doggart, of Darlington, England, a prize of $60 is awarded to the member of the second year class whose marks are highest for the first two years of the course, and $40 to the student whose marks are second highest.

Wenham Prize. From funds amounting to $3500 contributed through the Union Medical College, Peking, by friends of Dr. H. E. Wenham, a prize has been established as a memorial to him. This prize, consisting of the interest on the money, will be annually awarded to the two best students in the graduating class, the following points being being taken into consideration in making the award: general excellence, public service, scholarship and athletic achievement.

COUNCIL ON HEALTH EDUCATION SCHOLARSHIP

A scholarship of $100 will be given annually for the years 1926, 1927 and 1928 by the Council on Health Education to the student obtaining the highest marks in the Entrance Examination to the Medical School of Shantung Christian University.

DEGREES

On completion of the five year course of study, students who successfully pass the examinations are awarded the degree of M. B.

COURSES OF INSTRUCTION

DEPARTMENT OF ANATOMY

RANDOLPH TUCKER SHIELDS, M. D., Professor of Histology and Head of the Department.

LAURENCE MANSFIELD INGLE, M. B., Ch. B., Associate Professor of Anatomy.

HUI-WEN WANG, Assistant Professor of Anatomy.

Anatomy 1, 2, 3, 4. Gross Anatomy.

Both semesters of 1st year, 10 hours a week.

Both semesters of 2nd year, 6 hours a week.

Each student is required to make a careful dissection of one half of a body. Lectures are given during the 2nd semester of 2nd year especially emphasising function and development.

Anatomy 6. Applied Anatomy.

2nd semester of 3rd year, 3 hours a week.

This course is designed by demonstration and lectures to acquaint the student with a knowledge of surgical anatomy.

Anatomy 7 & 8. Embryology and Histology.

Both semesters of 1st year, 8 hours a week.

This course begins with a general study of the development of the chick. Then the Histology of the fundamental tissues is taken up, fresh tissue being used as much as practicable. Organology is taught from

the embryological view-point and the relationship of Histology to Physiology and Pathology is emphasised. In the last part of the 2nd semester a short course in Mammalian development is given. Students are required to do enough technical work to acquire some familiarity with routine histological methods.

Anatomy 10. *Neurology*

2nd semester of 4th year, 5 hours a week.

This course deals with the anatomy of the central nervous system, and especially the arrangement and function of the fiber tracts.

Text-books:—

Translation Lewis' Text-book of Histology.

Translation Reese's Introduction to Embryology.

Students are encouraged to use English text-books and journals for reference.

DEPARTMENT OF PHYSIOLOGY

PHILIP SAFFERY EVANS, Jr., M. D., Professor of Physiology and Head of the Department.

PETER C. KIANG, M. D., Professor of Bio-chemistry and Toxicology.

SUSAN S. WADDELL, M. D., Associate Professor of Physiology and Pharmacology.

WILLAM PERCY PAILING, Ph. C., M. P. S., Associate Professor of Materia Medica and Pharmacy.

PAO-HOU HSU, Assistant in Bio-Chemistry.

Biological Chemistry 1.

Instruction in this subject is mainly given by laboratory work, supplemented by lectures and recitations, to the first year class during the first semester, *12 hours per week.*

The course is designed to cover the following:—

1. The general chemistry of the cell and various tissues of the body.
2. The descriptive chemistry of the carbohydrates, lipins, proteins and other substances which constitute the physical basis of life.
3. The dynamic chemistry of digestion, metabolism, secretion and excretion. This also includes a study of the biochemical processes

that can be closely imitated outside the human organism, such as the action of enzymes-salivary, gastric and pancreatic digestions.

4. Volumetric methods of urine and blood analysis.
5. Physico-chemical methods as applied to the various fluids of the body.

Students are required to execute various metabolism experiments, in order to familiarize themselves with the chemical technique and the problems of dietetics involved in such work. Throughout the course emphasis is especially given to those parts of the subject which will be of fundamental value to clinical interpretation.

PHYSIOLOGY

The course consists of lectures, recitations, laboratory work, and discussions on the experiments. The laboratory work is emphasized. Usually two students work together at one table. Each table is provided with a kymographion, inductorium, and the usual accessory apparatus, including connections with a low voltage constant current and a seconds-current. The records kept by the students, and the quizzes on the laboratory work are included in making up the marks for each term.

Physiology 2. Dr. Evans and Dr. Waddell.

2nd semester, 1st year, 3 recitation and lecture periods and 6 hours of laboratory work each week.

During this term the students study the physiology of muscle and nerve, the circulation, internal secretions, respiration and digestion.

Physiology 3. Dr. Evans and Dr. Waddell.

Ist semester, 2nd year, 7 hours a week.

This term the students study the functions of the kidney and the skin, general metabolism, heat regulation, functions of the central nervous system, sensation and perception, with study of special senses.

Pharmacy 2.

2nd semester, 2nd year, 2 hours per week.

This course consists of lectures and laboratory work. Weights and measures, incompatibles, special points relating to prescriptions and the official pharmacopoeial preparations are fully dealt with. Each student is required to make all the typical pharmacopoeial preparations, and compound typical prescriptions.

Pharmacology 2.

2nd semester, 2nd year, 6 hours per week.

This course is devoted chiefly to discussion of the physiological action of a selected list of drugs and how these actions may be utilized to relieve or cure disease. The physical and chemical properties of these drugs are described only in so far as they concern their actions and the methods of administration. Demonstrations are used to illustrate these discussions as far as is practicable, and each student is required to make his own observations and to describe them accurately in his laboratory note-book.

DEPARTMENT OF PATHOLOGY

LOUIS HENRY BRAAFLADT, M.D., Ph. D., Professor of Pathology and Head of the Department.

SAMUEL COCHRAN, M. D., Professor of Bacteriology.

BAO-DJANG HOU, M. D., Assistant Professor of Pathology.

CHI-HSIEN CHANG, Instructor in Bacteriology.

Pathology 1. ***Bacteriology and Immunology.***

1st semester, 2nd year.

The conditions of bacterial biology in general are explained and the ordinary methods of bacteriological technic demonstrated, the students themselves preparing the culture media and using them in the cultivation of a series of the commoner pathogens. They become familiar with the practical diagnostic methods in general use by performing them under supervision. A series of lectures and demonstrations, in which the students themselves participate, illustrates the commoner phenomena of Immunity.

Pathology 3 & 4. ***General Pathology & Pathological Anatomy.***

1st semester, 2nd year, 7 hours a week.

2nd semester, 2nd year, 12 hours a week.

A practical and systematic laboratory course wherein the principles of pathology as illustrated by the commoner human diseases are studied. It consists chiefly in microscopic study of diseased tissue, which is further illustrated by fresh and museum specimens, and, at times, patients from the hospital. The relation between the changed physiological functions of organs and the pathological changes causing them are emphasized. The aim of the course, besides familiarizing the student with some of the principles of pathology, is to develop his power of observation and of independent thinking.

Pathology 5 & 6. *Advanced Pathology.*

Throughout 5th year.

An elective course for specially qualified fifth-year students, wherein they may devote up to one third of their time to a more thorough study of disease or problems in which they are particularly interested. The object of this course is to help the student develop a little ability to carry on independent investigation.

Pathology 7 & 8. *Clinical-Pathological Conference.*

Whenever there is suitable material on hand, a conference of the 5th year students and staff is held once a week, wherein the clinical and autopsy findings of carefully studied cases are considered.

Pathology 10. *Surgical Pathology.*

2nd semester, 5th year, 4 hours a week.

The object of this course is threefold: first, to enable students to recognise diseased organs, both grossly and microscopically; secondly, to enable them to correlate pathological changes with symptoms and physical signs; thirdly, to demonstrate the pathological basis of surgical treatment.

Laboratory Diagnosis.

1st semester, 3rd year, 6 hours a week.

A course of practical instruction in the usual laboratory diagnostic procedures useful in the diagnosis of disease. Part of the course in which chemical procedures are used is given by Dr. Kiang, and that part depending specially on the microscope, by Dr. Cochran.

DEPARTMENT OF MEDICINE

WILLIAM McCLURE, M. D., C. M., Professor of Medicine and Head of the Department.

ERNEST B. STRUTHERS, B. A., M. B., D. T. M. & H. (Eng.) Associate Professor of Medicine.

FRANCIS HENRY MOSSE, M. A., M. R. C. P., Associate Professor of Medicine.

LEROY F. HEIMBURGER, M. D., Associate Professor of Dermatology.

ANNIE V. SCOTT, B. S., M. D., Associate Professor of Pediatrics.

JULIA MORGAN, M. A., M. D., Instructor in Medicine.

CH'UAN P'ING YANG, M. D., Instructor in Dermatology.

Medicine 1. *Infectious Diseases.* Dr. Struthers.

1st semester, 2nd year, 2 hours a week.

Systematic lectures and recitations on certain of the better known infectious diseases, together with demonstration of illustrative cases when such are available. This course is introduced earlier than is customary with the idea of linking more closely Pathology and Bacteriology with the Clinical aspects of the subject.

Medicine 2. *Physical Diagnosis.* Dr. Mosse.

2nd semester, 2nd year, 3 hours a week.

A practical course in the physical examination of the body in health and disease.

Medicine 3 & 4. *Clinical Medicine.*

1st & 2nd years. A course of 8 demonstrations each semester arranged to give the students of the 1st and 2nd years an introduction to the study of clinical medicine, especially in those diseases whose study can be greatly assisted by the Biochemistry and Physiology laboratories.

Medicine 5 & 6. *5 hours a week.*

3rd year. The students of the 3rd year are given demonstrations on selected cases in the wards which have a bearing upon the work covered in the lecture course. They are also required to make physical examinations and take histories of selected cases.

Medicine 7 & 8.

4th year. This consists of daily clinics in the hospital and work in the Out Patient Department.

Medicine 9. *Laboratory Diagnosis.* Dr. Cochran, Dr. Kiang.
1st semester, 3rd year, 6 hours a week.

Medicine 11, 12, 13, 14.
3rd and 4th years, 4 hours a week.

Systematic lectures and recitations on the Practice of Medicine dealing with the etiology, pathology, symptomatology, diagnosis and treatment of disease. Constant use is made of drawings, photographs, plates and morbid specimens to illustrate the subjects taught. Special emphasis is laid on those diseases prevalent in this country. During the second semester of the 4th year about eight hour-periods are devoted to outlining the more important psychoses, and about the same length of time to forensic medicine.

Medicine 15, 16.

5th year. (a) Hospital Wards. In addition to clinical demonstrations, students are required to make all investigations of such cases as are allotted to them, including the preparation of case histories, urine analysis, blood examination and other forms of special investigation. They are required to write out the treatment in detail and record the progress of the case.

(b) Out Patient Department. Students of the 4th and 5th years are required to attend in groups the out-patient department of the University Hospital where abundance of material affords excellent opportunities for the application of the common methods of physical diagnosis, as well as the carrying out of laboratory investigations. Fluoroscopy is demonstrated on appropriate cases.

Medicine 17. *Therapeutics.*
1st semester, 4th year, 4 hours a week.

A course of lectures on the pharmacological and therapeutic action of drugs in the treatment of disease, including the application of serum and vaccine therapy.

Demonstrations are given in the hospital of various methods of therapy, including massage and hydro-therapy and the more important procedures in the practice of nursing patients. Throughout an effort is made to teach in addition to drug therapy the value of other measures in the adequate treatment of the patient.

Medicine 19. *Neurology.*
1st semester, 5th year, 4 hours a week.

A course of lectures and recitations is given during the first semester of the 5th year covering the more common diseases of the nervous system; the subject is illustrated by means of diagrams, pictures, together with normal and morbid specimens, and, wherever possible, cases are brought before the class for discussion. The amount of clinical material in the out-patient department is now considerable.

DERMATOLOGY AND SYPHILOLOGY

Dermatology 1. (3rd year, 1st semester.)

A preliminary course of sixteen lectures to review the physiology and histological anatomy of the skin; to study the pathology of the more important dermatoses and syphilis, and the reaction of the skin to various physical, chemical and bacterial agents.

Dermatology 2. (3rd year, 2nd semester.)

Sixteen lectures to lay stress on the etiology, pathology, diagnosis and treatment of the common diseases of the skin met with in ordinary clinics. These are illustrated with pictures, lantern slides and clinical material when available.

Dermatology 3 & 4. (5th year.)

Clinical Instruction to sections of the class in the out-patient department, hospital wards, and Tsinan Leper Hospital to observe the eruption characteristics of skin diseases. Dark field examinations and the method of preparation of hair and scales for microscopic examination of the scalp and body for fungus infections are also taught. Also instruction is given in the administration of various therapeutic agents, as arsphenamine, mercury, bismuth, vaccines etc. and the

technique of lumbar puncture and intraspinal therapy. As opportunity affords, the X-Ray therapy of cutaneous diseases is demonstrated by the X-Ray Department.

Syphilology 2. (3rd year, 2nd semester.)

Sixteen lectures are given on the clinical and laboratory diagnosis of syphilis, especially cutaneous and nervous types. Recent discoveries relating to the treatment, diagnosis and prognosis of syphilis are discussed. Clinical material, pictures and lantern slides are used to illustrate these lectures.

Syphilology 3 & 4. (5th year)

Given to sections of the class in conjunction with Dermatology 3 & 4.

Textbooks:- Schamberg, Compend of Diseases of the Skin (English)
Neal " " " " " " (Chinese)
Heimburger, Syphilis (Chinese)

Reference books:- Highman, Dermatology
Sequira, Diseases of the Skin
Stellwagon, Textbook of Diseases of the Skin
Sutton, Diseases of the Skin
Walker, Handbook of Skin Diseases.

PEDIATRICS

Pediatrics 1 & 2.

Both semesters, 3rd year, 1 hour a week.

This course consists of lectures on the Growth and Development of the Child and on Infant Feeding.

Pediatrics 3 & 4.

Both semesters, 4th year, 2 hours a week.

During the fourth year one lecture and one hour bedside clinical work on Diseases of Children are given each week.

DEPARTMENT OF HYGIENE

CHUNG-HSIN HAN, Graduate S. C. U., Diploma in Hygiene (Cantab.), D. T. M. & H. (Eng.), Assistant Professor of Preventive Medicine and Acting Head of the Department.

PUBLIC HEALTH AND HYGIENE

The course in Public Health and Hygiene is divided into three parts and is given to each class of Medical students during the second semester of the third and during both semesters of the fourth year.

Hygiene 2. 2nd semester, 3rd year, 16 hours, consists of a course of 16 lectures dealing with the history of Medicine and the evolution of preventive medicine; it explains the meaning of health, the necessity for its existence and the relation between curative and preventive medicine.

Hygiene 3. 1st semester, 4th year, 32 hours, consists of

(a) 20 lectures dealing with meteorology and climate: geology in relation to health: principles of ventilation and lighting: water supply and its purification: food stuffs: methods of removal and disposal of refuse and sewage: epidemiology and measures directed against infectious disease: disinfectants and disinfection.

(b) 12 lecture periods to be used for demonstrations of chemical and bacteriological analysis of water, milk, etc., specimens of helminths, insects, etc.

Hygiene 4. 2nd semester, 4th year, 32 hours, consists of

(a) a course of 16 lectures dealing with personal hygiene: value of statistics: sanitary law of the Metropolitan Police; public health administration; school hygiene; industrial hygiene; maternity and child welfare.

(b) 16 lecture periods for field demonstration, including inspection of factory conditions and philanthropic institutions, etc.

Each student is asked to make a report on the sanitation of his own town or village, with the hope that he may get a practical knowledge of the application of Preventive Medicine.

DEPARTMENT OF SURGERY

EDWIN R. WHEELER, M. B., B. S., F. R. C. S. (Eng.), Professor of Surgery and Head of the Department.

HAROLD BALME, F. R. C. S. (Eng.), D. P. H. (Lond.)

THORNTON STEARNS, M. D., F. A. C. S., Associate Professor of Orthopaedics and General Surgery.

HENRY W. S. WRIGHT, M. B., M. S. (Lond.) F. R. C. S. (Eng.), Associate Professor of Urology & General Surgery.

TA-CHIH PA, M. D., Assistant Professor of Ophthalmology.

DAVID J. EVANS, M. B., B. S., M. Ch., Instructor in Otolaryngology & General Surgery.

SURGERY

This course includes General Surgery, Orthopaedics, Genito-Urinary Surgery, Ophthalmology and Otolaryngology, Operative Surgery, besides Clinical work in the wards, Operating room and Out-Patient Department. While the Manual of Surgery by Rose and Carless, of which there is a good Mandarin translation, is used as the basis for didactic work, an attempt is made in the lectures given to amplify this work and adapt it to fit the peculiar needs of China.

An introduction to Clinical Surgery is given to the Students in their lst and 2nd second year but the course properly begins in the third year and is as follows:—

Surgery 1. (3rd year, 1st Semester). 4 hours per week.

(Ophthalmology 2 hours per week.) Inflammation, Ulceration and Gangrene; Non-specific pyogenic Infections, Specific Infectious Diseases; Tumours and Cysts, Wounds, Haemorrhages, Diseases of blood vessels and lymphatic system, general technique of operative surgery.

Surgery 2. (3rd year, 2nd Semester). 4 hours per week.

(Ophthalmology 2 hours per week.) Surgical affections of nerves, skin, muscle, tendons and bursae. Orthopaedic Surgery, including fractures, injuries and diseases of spine, amputations &c, &c.

Surgery 3. (4th year, 1st Semester). 5 hours per week.

Surgical affections of Scalp, Brain and membranes, Lips and Jaws, Mouth, Œsophagus, Surgery of Neck, Thorax and Breast.

Surgery 4. (4th Year, 2nd Semester). 6 hours per week.

Abdominal Surgery, Genito-Urinary Surgery, Anaesthetics, Ear, Nose and Throat.

Surgery 5. (3rd, 4th and 5th years).

In addition to clinical demonstrations upon selected cases in the wards and out-patient department of the University Hospital, students who are taking this course are required to make all investigations of such cases as are allotted to them, including the preparation of case histories, urine and blood analysis, and other forms of special investigation, the recording of the treatment administered and the progress of the case.

Surgery 6. (5th Year) 3 hours per week. Operative Surgery.

Operations on cadaver. Demonstrations and practical work.

OPHTHALMOLOGY

Ophthalmology 1. & 2. Dr. Pa.

Both semesters of 3rd year. 2 hours a week.

This course consist of lectures, operations and practice on pigs' eyes. The object is to teach students to know the general principles of Anatomy, Physiology, Embryology, Histology and Neurology of the eye, and also the etiology, symptoms, pathology, diagnosis and treatment of common important eye diseases.

Each student will have the opportunity to practise operating for Cataract and Glaucoma on pigs' eyes, and at times to assist in eye operations.

Ophthalmology 2. (Clinical work) Drs. Pa. & Yang.

3 hours daily for half semester of 3rd year & 4th year.

The clinical work consists of (A) Complete examination of cases, including history, functional test, dark room examination, differential diagnosis and treatment. (B) Minor operations and special trachoma

treatment, also done by students under the supervision of instructors. (C) Refraction, including the primary muscle test, retinoscope record, trial case finding, checking lenses and fitting frames. (D) Demonstrations will be given in selected cases.

Ophthalmology 3. (One month Elective Course in Summer for Post-graduate students) Dr. Pa.

This special course includes four lectures and 5 hours a day of clinical work, including operations, demonstrations, refraction and eye pathology in laboratory for those students who are specially interested in Ophthalmology.

DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

FRANCES J. HEATH, M. D., Professor of Obstetrics and Head of the Department.

HELENA R. WRIGHT, M. B., B. S. (Lond.), M. R. C. S. (Eng.), Associate Professor of Gynecology.

OBSTETRICS AND GYNAECOLOGY

Instruction in Obstetrics and Gynaecology is given in the third, fourth and fifth years. In addition to the required work outlined below, an elective major course is open to students of the fifth year who have satisfactorily qualified for advanced work.

Obstetrics 1. 1st and 2nd semesters, 3rd year, 64 hours.

Lectures, demonstrations and recitations twice weekly throughout the 1st and 2nd semesters of the third year. The general principles of Obstetrics are considered and special attention is given to the physiology and pathology of pregnancy and the puerperium.

Obstetrics 2. 2nd semester, 3rd year, 16 hours.

Demonstrations once weekly throughout the second semester of the third year, using the manikin and cadaver to elucidate the technique of obstetrical examination, diagnosis, and of the various operative procedures.

Obstetrics 3. 1st and 2nd semesters, 3rd year, 64 hours.

Clinical instruction is given to sections of the third and fourth classes, embracing experience in pelvimetry, prenatal care, and the examination of pregnant women. Work is divided between out-patient department, wards, and delivery room.

Gynaecology 1. 1st semester, 4th year, 32 hours.

Lectures and recitations twice weekly during the first semester of the fourth year. Special attention will be given to the pathology of those diseases most frequently encountered in China.

Gynaecology 2.

Sections of the third and fourth year classes will be given work in the out-patient department and in the wards. The students will attend operations and keep notes on cases assigned for study.

Gynaecology-Obstetrics 1.

A weekly lecture clinic is given throughout the third and fourth years by members of the staff. Students are required to co-operate in the presentation of histories and discussion of diagnosis and treatment. Especial emphasis is laid on symptomatology and differential diagnosis, and opportunities are given to confirm diagnoses with laboratory specimens.

Gynaecology-Obstetrics 2.

Sections of the fifth year class are given opportunity to act as clinical clerks in the wards, caring for patients under supervision of the staff. They will keep accurate records of the history and progress of patients. perform necessary laboratory work, assist with operations, and take charge of normal deliveries.

FEES AND REGULATONS

Each student, during his five years' residence in the School of Medicine, is required to pay the following fees:—

Tuition . . .	$30 per semester
Athletic Fee . .	$ 2 per semester
Dormitory Fee . .	$ 5 per semester
Breakage Deposit .	$ 5 annually, payable in September.

The Field Board of Managers of the Shantung Christian University retain the right to raise the fees at their discretion.

These fees do not include books, board, travel, etc. Board costs in Tsinan, at present rates, about six dollars a month, so it is estimated that, apart from travel, it will cost each student approximately one hundred and sixty dollars per year for all expenses, including tuition, board, books and incidentals.

Dormitories are furnished for the students, also kitchen and dining room accommodation. The students eat at the Commons, managed by themselves. All students will be expected to room in the dormitories.

All inquries and requests for further information regarding the School of Medicine should be addressed to

THE DEAN
SCHOOL OF MEDICINE
SHANTUNG CHRISTIAN UNIVERSITY
TSINAN.

LIST OF STUDENTS

1924—25

Name	Address
First Year	
Chang Chao	Tientsin, Chihli.
Chang Chao H'ui . . .	Anchiu, Shantung.
Chang En Hsiang . . .	Pingtu, Shantung.
Ch'eng Hsi Yu . . .	Kiangyin, Kiangsu.
Liu Kuang Chu . . .	Chuning, Kiangsu.
Ma Chin T'ang . . .	Anyang, Honan.
Pan Tso Hsin	Peking, Chihli.
T'ang Hsi Yao	Hochien, Chihli.
Wang Lo Shan	Wuchiachwang, Shantung.
Yeh Lu Ming	Sinyang, Honan.
Women Students	
Chin Tao Shun . . .	Pingyang, Korea.
Teng Jen Te	Kuangyao, Shantung.
Second Year A	
Chang Ching Hsiu . . .	Chuhsien, Shantung.
Chang Wei Hsin . . .	Yangchu, Shansi.
Chen Yen Ping . . .	Canton, Kuangtung.
Chin Teh Feng . . .	Lungkiang, Heilungkiang.
Han Hwa Yang . . .	Weihsien, Shantung.
Hsiang Hsi Nan . . .	Changchow, Kiangsu.
Kao En Pei	Chenkiang, Kiangsu.
Keng Chien Chao . . .	Hwaiyuan, Anhwei.
K'ou Chien Ch'i . . .	Linyi, Shantung.
Li Chung	Chingyuan, Shansi.
Li Yu Jen	Taian, Shantung.
Meng Sung Ming . . .	Chingyuan, Shansi.
Shih Tao P'ing . . .	Huangchow, Hupeh.
Sun Shang Chung . . .	Linghsien, Shantung.
Sun Tung Shu . . .	Weihsien, Shantung.
Tsui Hung Fu	Weihsien, Shantung.
Wu Chin Fu	Tsingkiangpu, Kiangsu.

Name	Address
Wu Pao Hsuin	Yihsien, Shantung.
Yin Hsueh Chih	Tsingchow, Shantung.
Yu Wen Yuan	Lintsi, Shantung.

Women Students

Chu Chin Ch'in	Peking, Chihli.
Wang Kwei Hsing	Hsinminhsien, Fengtien.

Second Year B.

Chang Yin Tsi	Weihsien, Shantung.
Ch'en Hsueh Yuan	Shangyao, Kiangsu.
Ching I Hwei	Kwangyao, Shantung.
Feng Lan Chou	Linchu, Shantung.
Feng Lan Hsin	Linchu, Shantung.
Hsu Shu	Kaifeng, Honan.
Kwo Tso Kwo	Hsinyuan, Shensi.
Li Shou Ch'eng	Yiyang, Hunan.
Lo Hsi Hsien	Chihsien, Shansi.
Yang Hsin Yuan	Changling, Shansi.

Women Students

Chin Pao Chen	Fenghuanghsien, Fengtien.
Li Hsiu Chun	Shaohoyen, Fengtien.
Li Tsi I	Wuchang, Hupeh.
Lin Lien Ch'ing	Ichang, Hupeh.
Tai Chiung Shan	Hsinghua, Fukien.
Liu Fu Lin	Peking, Chihli.
Teng Chih En	Chinhsien, Fengtien.
T'ien Feng Luan	Fenyang, Shansi

Third Year

Chang Yu Shou	Kiangyin, Kiangsu.
Ch'en Tien Ling	Fut'ien, Fukien.
Ch'en Ts'ung Shou	Wuchang, Hupeh.
Ch'iao Ping Kuang	Chihhsien, Shansi.
Liu Chen Hwa	Changshan, Shantung.
Liu Chung Hsuin	Chuangho, Fengtien.

Name	Address
Sun Ming Lien	Tehching, Chekiang.
Sun Ying Fang	Shentsehsien, Chihli.
Tai Hung Fu	Kw'antien, Fengtien.
Wang Yung Jen	Lihsien, Chihli.

Women Students

Hu Ch'un Su	Peichen, Fengtien.
Yang Lan Ying	Shanghai, Kiangsu.

Fourth Year

Chang Chi Ch'eng	Weihsien, Shantung.
Chang Chun Chieh	Yihsien, Shantung.
Chang Hwei Chuan	Wenan, Chihli.
Chang Wen Hwan	Chang I, Shantung.
Chao Kuang Yueh	Chiyang, Shantung.
Ch'eng Cheng T'ien	Fenyang, Shansi
Ch'ien Ching Shan	Sutsien, Kiangsu.
Hou Li Shan	Dairen, Fengtien.
Li Yuan Fu	Chitung, Shantung.
Liu Ching Hwei	Weihsien, Shantung.
Liu I P'eng	Anchiu, Shantung.
Shih Ching Jen	Swatow, Fukien.
Sun Chien I	Taian, Shantung.
Tien Yeh	Nanking, Kiangsu.
Wang Chao Ling	Tehsien, Shantung.
Wang Chia Cheng	Tsingchow, Shantung.
Wang En Jun	Fenyang, Shansi.
Wang Wen Hwei	Paotingfu, Chihli.
Wei Hsing Jang	Shouchwang, Shantung.
Yu Chia Chuin	Chimei, Shantung.
Yu Nai Chen	Pingtu, Shantung.

Women Students

Chang Chin Wen	Chengtu, Szechuen.
Chang I Hsuan	Tengchow, Shantung.
Liu Tuan Chun	Chengtu, Szechuen.
Yang Su Chen	Shanghai, Kiangsu.

Fifth Year (graduated January 1925)

Chen Kung Li . . .	Futien, Fukien.
Ho Sheng Lu . . .	Hsiachen, Shantung.
Hsu Yin Liang . . .	Hsinyang, Fengtien.
Hsu Yun Hsiang . . .	Chinhwahsien, Chekiang.
Lan Kwoh Chen . . .	Paotingfu, Chihli.
Li Yu	Hengyang, Hunan.
Sun Yuan I	Peichen, Shantung,
Wei Shou Chung . . .	Shoukwang, Shantung.
Yu Tao Yung	Linyi, Shantung.