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Canton Christian College

BULLETIN 19

CATALOGUE

OF THE

College of Arts and Sciences

1919-20

CANTON, CHINA

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of the

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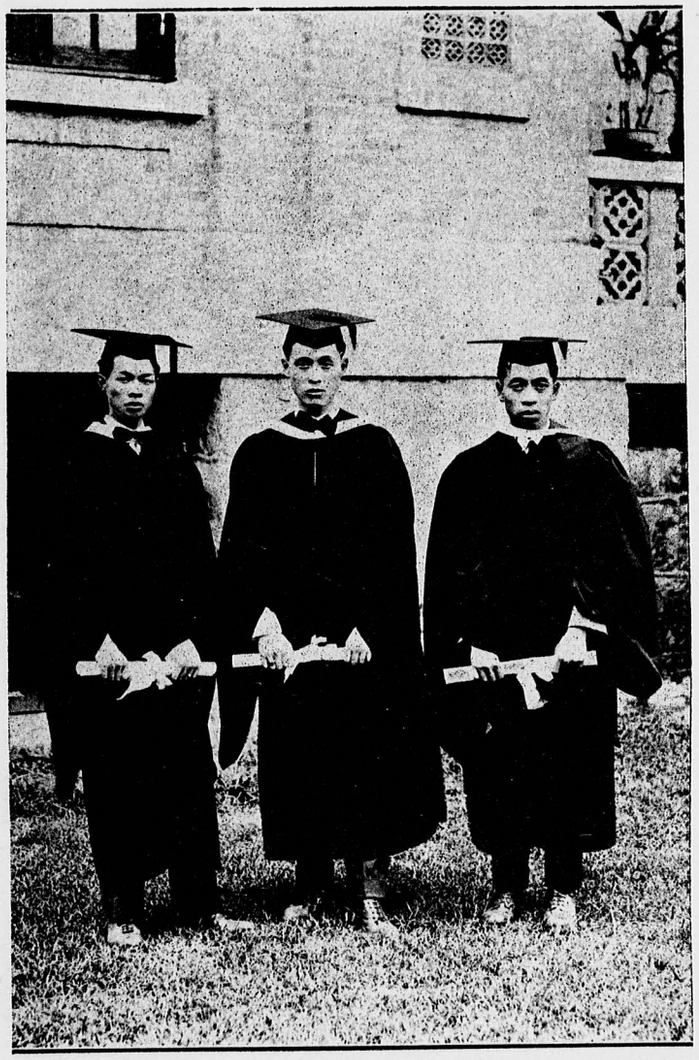

FIRST B.A. GRADUATES OF CANTON CHRISTIAN COLLEGE
CLASS OF 1918

MESSRS. LO KA PING, CHAN TING HOI AND LEI YUE KIM

Canton Christian College

Bulletin No. 19

CATALOGUE

of

The College of Arts and Sciences

Academic Year 1919-20

CANTON, CHINA
March, 1919
Printed by the College Press

OFFICERS OF ADMINISTRATION

President	Charles K. Edmunds
Vice-President for Chinese Affairs	W. K. Chung
Bursar	Owen E. Pomeroy
Librarian	Jessie Douglass
College Physician	W. W. Cadbury

Heads of Schools

Dean of College of Arts and Sciences	Kenneth Duncan
Principal of Middle School	Henry B. Graybill
Principal of Elementary School	W. Sz-to
Dean of Women	Clara Sz-to

President's Office

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Assistant Secretary	F. C. Tong
Chinese Secretary to Vice-President	T. W. Chan

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Acting Superintendent of Grounds	T. S. Lau
Chief Accountant	I. C. Tsui
Assistant Accountant	S. C. Sung
Store and Postal Clerk	U. F. Wong

Building Department

Resident Architect	J. R. Edmunds, Jr.
Master Builder	T. S. Hoh
Draftsman	P. S. Chan

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1919-1920

文士 Charles Keyser Edmunds, B.A., Ph.D., *President; Professor of Physics, and Director of Physical Laboratory.*

B.A. Johns Hopkins University, 1897, Fellow in Physics, 1902, and Ph.D., 1903; Acting Professor of Physics, University of Utah, 1898-99; Magnetic Observer, U. S. Coast and Geodetic Survey, 1900; Instructor in Physics, Central High School and Columbian University, Washington, D.C., 1900-01; General Secretary, Christian Association, Johns Hopkins University, 1901-02; Professor of Physics, Canton Christian College, 1903- ; Vice-President, 1907; President, 1907- ; Member, American Physical Society; Associate, American Institute of Electrical Engineers; Member, American Association for the Advancement of Science; Observer in Charge, Magnetic Survey of China, Carnegie Institution of Washington, 1905- .

鍾榮光 Chung Wing Kwong, *Vice-President for Chinese Affairs.*

Siu Tsai, Chinese Government Examinations, 1884; Chu Jen, 1894; Editor-in-Chief, "Pok Man Daily," 1896-1900; Instructor, Canton Christian College, 1900-08; Associate Professor, 1909-09; Chinese Dean, 1917; Vice-President for Chinese Affairs, 1917- ; Commissioner of Education, Province of Kwongtung, 1911-13; study and travel in America, 1913-16.

彭美資 Owen E. Pomeroy, B.A., *Bursar and Superintendent of Buildings and Grounds; Lecturer in Business.*

B.A., Harvard University, 1905; Instructor, Canton Christian College, 1905-08; Bursar, 1914- ; Complaint Clerk, James McCreery & Co., New York, 1908-09; Merchandise Manager, H. Batterman Co., New York, 1910-13.

鄧勤 Kenneth Duncan, B.A., M.A., *Dean of the College of Arts and Sciences; Professor of Economics.*

B.A., Wabash College, 1910; M.A., University of Wisconsin, 1915; Master, The College School, Kenilworth, Ills., 1910-11; Instructor, Canton Christian College, 1911-14; Associate Professor of Economics, 1915-18; Professor, 1918- ; Dean, College of Arts and Sciences, 1917- ; Special Examiner, Insurance Commission, State of Wisconsin, 1914; Fellow of the Royal Economic Society (London), 1915; Member, American Economic Association; American Sociological Society; American Statistical Association.

林安德 ANDREW HENRY WOODS, B.A., M.D., *Lecturer in Physiological Psychology.*

B.A., Washington and Lee University, 1893; M.D., University of Pennsylvania, 1899; Headmaster, Knoxville, Tenn., Classical School, 1893-94; Professor of Latin, Mercersburg Academy, 1894-95; Instructor in Latin, Martin Classical School, Philadelphia, 1896-98; Physician and Instructor, Canton Christian College, 1899-1907, 1912- ; Vice-President, 1900-16; Assistant Neurologist, University of Pennsylvania, 1908-12, 1917-18, and Lecturer on Electro-Therapeutics, 1910-11; Instructor in Neurology, University of Pennsylvania Medical School, 1917-18, Assistant Neurologist, Philadelphia Hospital, 1910, 1917-18; Visiting Neurologist, Canton Hospital, 1913-17; Fellow, College of Physicians, Philadelphia; Member, Philadelphia Neurological Society; Clinical Professor of Neurology, Hackett Medical College for Women; Neurologist to the David Gregg Hospital for Women and Children; Captain, Medical Corps, U. S. Army, A. E. F., France, 1918- .

葛理佩 HENRY BLAIR GRAYBILL, B.A., M.A., *Professor of Education; Principal of the Secondary School.*

B.A., Washington and Lee University, 1902; M.A. Columbia University, and Diploma, Teachers College, 1907; Teacher of English, Fishburne Military Academy, 1902-03; Instructor, Canton Christian College, 1903-06; Principal of the Middle School, 1907- ; Acting Dean, College of Arts and Sciences, 1915-16; Professor of English, 1915-16, of Education, 1916- .

馮世安 CHESTER GARFIELD FUSON, B.A., F.R.G.S., *Lecturer on Teacher Training.*

Graduate, Kansas State Normal School, 1903; B.A., College of Emporia, 1905 Instructor, Canton Christian College, 1905-09; Supervisor of Elementary Schools and Professor of Geography, 1910-16; Lecturer on Teacher Training, 1917- ; Assistant Magnetic Observer, Expedition through Central Asia, Carnegie Institution of Washington, 1909; Fellow of the Royal Geographical Society (London), 1910; Supervisor of Schools, American Presbyterian Mission, 1917- .

梁敬敦 CLINTON NEVIUS LAIRD, B.A., M.A., *Professor of Chemistry.*

B.A., University of Pennsylvania, 1903; M.A, 1905; Instructor, Canton Christian College, 1905-09; Bursar, 1907-14; Professor of Chemistry, 1910- ; Member, American Chemical Society; American Association for the Advancement of Science.

高魯甫 GEORGE WEIDMAN GROFF, B.S., M.S., *Professor of Horticulture and Director of Agricultural Department.*

B.S., Pennsylvania State College, 1907, M.S., 1918; Instructor, Canton Christian College, 1907-10; Professor of Horticulture and Director of Agricultural Department, 1912- ; Collaborator of United States Department of Agriculture, Bureau of Plant Industry, 1915-17; Field Assistant, 1917- ; Member, American Genetic Association.

陳輯五 CHAN TSAP NG, *Senior Professor of Chinese.*

SIU TSAI, Chinese Government Examinations, 1902; Instructor in Kwangtung schools, 1902-07; Instructor, Canton Christian College, 1908-13; Acting Chinese Dean, 1913-16; Associate Professor of Chinese, 1913-17; Senior Professor, 1918- .

麥丹路 WILFRID EWART MACDONALD, B.A., M.A., *Professor of Mathematics.*

B.A., University of Tennessee, 1901; M.A., Harvard University, 1907 Licentiate in Mathematics, University of Tennessee, 1900; Instructor in Mathematics, Massachusetts Institute of Technology, 1903-06; Instructor in Mathematics, Harvard University, 1907-10; Professor of Mathematics, Canton Christian College, 1910-16, 1917- ; Instructor in Mathematics, University of Pittsburgh, 1916-17.

考活 CHARLES WALTER HOWARD, B.A., M.S., *Professor of Biology; Curator of the Museum and Herbarium.*

B.A., Cornell University, 1904; M.S., University of Minnesota, 1913; Assistant Entomologist, Transvaal Department of Agriculture, 1905-06; Entomologist, 1906-08; Entomologist to the Pan-South African Trypanosomiasis Commission, 1906-08; Entomologist, Department of Agriculture of Portuguese East Africa, 1908-11; Special Assistant, Rockefeller Institute for Medical Research, 1911; Instructor in Entomology, Minnesota Agricultural College, 1912-13; Assistant Professor of Entomology and Parasitology, 1913-17; Associate Professor, 1917; Professor of Biology, Canton Christian College, 1917- ; Curator of Museum and Herbarium 1918- ; Fellow of London Entomological Society, 1907; Fellow, American Association for the Advancement of Science, 1915; Member, American Association of Economic Entomologists; Biological Society of Washington.

盧姑娘 LILLIE DEMING LOSHE, B.A., Ph.D., *Professor of English.*

B.A., Bryn Mawr College, 1899; Ph.D., Columbia University, 1905; Instructor, Bryn Mawr College, 1903-09; Instructor, Canton Christian College, 1915-16; Professor of English, 1918- .

鮑令留 HENRY CHASE BROWNELL, B.A., *Associate Professor of History.*

B.A., University of Vermont, 1908; Rhodes Scholar, Oxford University, 1910-13; B.A., 1912; Instructor, Canton Christian College, 1908-10; Associate Professor of History, 1913- ; Austin Scholar, Harvard University, 1918-19.

白士德 ALEXANDER BAXTER, REV., *Associate Professor of Religion.*

Graduate, Hackney Theological College, University of London, 1907; Ordained (Congregational Church) and appointed to Canton, 1907; Missionary of the London Missionary Society in Canton and vicinity, 1907-15; appointed London Missionary Society's representative on Faculty of Canton Christian College as Associate Professor, 1916- .

嘉惠霖 WILLIAM WARDER CADBURY, B.A., M.A., M.D., *College Physician; Internist to Canton Hospital.*

B.A., Haverford College, 1898; M.A., 1899, M.D., University of Pennsylvania, 1902; Demonstrator in Pharmaco-Dynamics and Assistant Demonstrator in Pathology, University of Pennsylvania, 1906-07; Pathologist to St. Mary's Hospital, Philadelphia, 1906-07; Physician to Starr Centre Dispensary, Philadelphia, 1906-08; Examining Physician to Children's Bureau, Philadelphia, 1907-08; Visiting Physician, Free Hospital for Poor Consumptives, White Haven, Pa., 1908; Visiting Physician to the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis, 1906-08, Curator and Librarian, 1907, and Pathologist, 1908; Instructor in Materia Medica and Therapeutics, University Medical School, 1910-14; Director and Chief Surgeon and Physician, Kung Yee Hospital, Canton, 1913-14; Lecturer, Canton Christian College, 1916, and College Physician, 1917- ; Fellow, College of Physicians, Philadelphia; Editor, China Medical Journal (Chinese), 1912 14; Assistant Resident Physician, Peter Bent Brigham Hospital, 1915-16; Instructor of Clinical Medicine, Hackett Medical College for Women, 1914- ; Internist to Canton Hospital, 1914- .

關恩佐 KWAN YAN CHO, B.S., *Associate Professor of Chinese.*

Graduate, Canton Christian College, Middle School, 1906; B.S., Columbia University, 1912; Instructor, Yeung Kong Mission School, 1904-05; Instructor, Canton Christian College, 1907; 1912-17; Editor-in-chief of Ling Naam Magazine, 1916-19; Associate Professor of Chinese, 1917- .

陳仲偉 CHAN CHUNG WAI, *Associate Professor of Chinese Literature.*

SIU TSAI, Chinese Government Examinations, 1899; Student in Japan, 1901; Instructor in Kwangtung schools, 1906-12; Editor-in-chief, "Man Shan Daily," Canton 1912-13; Instructor, Canton Christian College, 1913-18, Associate Professor of Chinese Literature, 1918- .

聶 士 ARTHUR RUSSELL KNIPP, B.A., B.S., *Instructor in Physics and Resident Engineer.*

B.A., Johns Hopkins University, 1907; B.S., Massachusetts Institute of Technology, 1909; Instructor and Resident Engineer, Canton Christian College, 1909-15, 1917- ; Miscellaneous engineering and teaching experience in U.S.A., 1915-17.

趙恩賜 CHIU YAN TSZ, B.S., M.A., *Instructor in Chemistry.*

B.S., University of California, 1913; M.A., Columbia University, 1915; Associate General Secretary, Chinese Student Christian Association of North America, 1913-14; Instructor, Canton Christian College, 1915- ; Member, American Chemical Society.

羅飛雲 CARL OSCAR LEVINE, B.S., *Instructor in Animal Husbandry.*

B.S. in Agriculture, Kansas State Agricultural College, 1914; Chairman, Marshall County (Kansas) Farm Bureau, 1915-16; Instructor, Canton Christian College, 1916- ; Curator of Herbarium, 1916-18; Acting Director, Agricultural Department, 1917-18.

譚錫鴻 TAAM SIK HUNG, B.S., *Instructor in Animal Husbandry.*

Graduate, Canton Christian College, Middle School, 1911; B.S. in Agriculture, Kansas State Agricultural College, 1916; Instructor, Canton Christian College 1917.

司徒如坤 CLARA SZ-TO, B.L., M.A., *Instructor in German; Dean of Women.*

B.L., 1914, University of California; M.A. 1915; Teacher, San Francisco Grade Schools, 1914-15; Instructor, Canton Christian College, 1916- ; Dean of Women, 1918- .

麗 雪 MARGARET HALLOWELL RIGGS, B.A., *Instructor in English.*

B.A., Cornell University, 1910; Teacher of History and Latin, Armitage School, 1910-11; Teacher of History, Camden (N.J.) Manual Training and High School, 1911-17; Instructor, Canton Christian College, 1917- .

陳德芸 CHAN TAK WAN, *Instructor in Chinese and History.*

SIU TSAI, Chinese Government Examinations, 1898; Instructor in Kwangtung, Hongkong and Macao schools, 1900-11; Managing Editor "Man Shaan Daily," 1912-13; Instructor, Canton Christian College, 1915- .

曲大衛 DAVID LIVINGSTONE COOK, B.A., *Instructor in Chemistry and Physics.*

B.A., Willamette University, 1916; Principal of Carey (Idaho) Schools, 1912-13; Principal, Metolius (Oreg.) High School, 1913-14; Assistant in Physics, Willamette University, 1915-16; Principal, Newberg (Oreg.) High School, 1916-17; Instructor, Canton Christian College, 1917- ; Member, American Association for the Advancement of Science.

古察 JAMES FRANKLIN KARCHER, B.S., *Instructor in Biology.*

B.S., University of Pittsburgh, 1917; Assistant Instructor in Biology, University of Pittsburgh, 1917-18; Instructor Canton Christian College, 1918- .

郭陸棠 KWOK YAM TONG, B.Sc., M.A., Pd.M., *Intructor in Business Administration and Economics.*

Graduate, Canton Christian College, Middle School, 1907; B.Sc., New York University, 1916; M.A. and Pd.M., 1918; Instructor, Canton Christian College, 1911-12; 1918- ; Member, American Economic Association.

和愛民 HELENA WATERMAN, *Instructor in Piano.*

Student of Piano and Harmony, Chicago, Ill., 1895-1907, under Mr. Emil Liebling, Dr. Louis Falk, Fredrick Grant Gleason, Miss Maude Peck, Mr. Anthony Stankowitz, and others; Teacher of Piano in Chicago, 1897-1911; Teacher of Piano, Northland College, 1911-13; Missionary of the South China Boat Mission, Canton, 1916-19; Instructor in Piano, Canton Christian College, 1918- .

Location of the College



THE CANTON CHRISTIAN COLLEGE is situated on the north shore of the island of Honam, two and a half miles east of the center of Canton City, the metropolis of Kwangtung Province, which is but ninety miles from the great port of Hongkong. The College property lies along the Pearl River, nearly opposite the Tungshan suburb of Canton.

The College has a campus of a hundred and thirty acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from 40 to 70 feet above the river, and enjoy beautiful views in all directions. There are more than a score of permanent buildings of brick and reinforced concrete, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office, an agency under the Canton postal administration, on its campus. The postal address of the College is Honglok, Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day.

History of the College

THE HISTORY of the Canton Christian College on its present site dates from 1904.

It started with low wooden school buildings and temporary bungalow residences, and has grown rapidly; permanent buildings, each taking its proper place in a complete architectural scheme, replacing the older temporary structures.

The work opened with six American teachers, a few Chinese instructors and thirty-seven students. Now there are about twenty-five foreign workers, not including wives, and about fifty Chinese teachers and assistants, several of whom have returned from American universities. The enrollment in all schools is approximately six hundred students.

The rapid expansion and success of the College owes much, however, to the bold aims and persistent efforts of a small group of of men during twenty years before. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his Board for a Christian College in Canton, and the next year one of his colleagues, Rev. A. P.

Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to use English as the medium for teaching Western subjects, and to have as broad a a purpose as the Syrian Protestant College at Beirut. Though five of the seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools and contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moreover, needed leaders of Christian faith and ideals in every sphere of life.

Dr. Happer had received a petition from no less than four hundred Chinese, including the most prominent officials, scholars, gentry and merchants of Canton, requesting that a high grade school be started under joint American and Chinese auspices; and in 1898 President Wisner received a petition signed by fifty-four pastors, licentiates, teachers and elders of all denominations in and near Canton urging that the College be maintained in Canton to serve the church as a whole.

Mr. Henry Martin, Dr. Happer himself, and others formed the initial fund, and the school was incorporated under the laws of the state of New York in 1893. For a time the Trustees owned the property and carried on the school of the Presbyterian Mission, Fati, but in 1898 they resold this property to the Mission, and the next year started a separate school with Rev. O. F. Wisner as president. This was moved to Macao during the Boxer disturbances and remained there four years while the small rice fields, bamboo groves, ponds and innumerable grave plots near Canton on which the College could be built, were gradually being acquired.

A part of the original fund was invested in a large three-story classroom building, ant-proof and fire-proof from cellar to roof, the first of its kind in China. For four years more the College waited for its second permanent building. Then in 1909 came a dormitory from Chinese friends who had proved to themselves the worth of the school, and this was rapidly followed by three more dormitories, until the sums specially contributed by Chinese toward the upbuilding of the institution amount to hundreds of thousands of dollars.

About 1909 American friends began giving residences for the staff, a water system, etc., and construction has gone forward with-

out interruption, even by the European War. There are now nine houses on the hill, with higher than all a splendid administration building provided by Mrs. J. S. Kennedy in 1915. That year saw completed, in another comanding position and also of special architectural interest, an auditorium and Christian Association building, the gift of Mr. Ambrose Swasey. The generosity of these and many other liberal givers is specially remembered each year on Founders Day, an occasion when it is possible, too, for the whole College community to express its gratitude to the one who has had a larger share than any other in making the present institution, Mr. W. Henry Grant, for years the untiring Secretary of the Trustees.

The Elementary School, started in a nearby village as a Student Christian Association enterprise, has been transferred to the campus and become a regular model department, with four attractive cottages built with gifts from Chinese, each having dormitory and classroom space for thirty children. A central hall, the gift of Mr. Tan Kah Kee of Singapore, provides an assembly room and a demonstration classroom, as well as a central kitchen for the group of cottages.

While the activities of the Christian Association have been steadily expanding and several dependent village schools opened, the increasing number of those who have joined the Christian church while students has been a source of great encouragement. In athletics the students have won an enviable prestige among Canton and Hongkong schools, beside excavating with their own hands a large swimming pool near the river, an unfailing source of physical benefit as well as real enjoyment.

The London Missionary Society in 1915 set apart one of its workers to become the professor of religion in the College, and in 1918 a representative of the Church Missionary Society was assigned to the staff of the Secondary School. This is the most striking though not the only way in which the missions have sought to cooperate and it will be followed, it is to be hoped, by similar steps on the part of others.

In 1907 an agriculturalist joined the staff and the College garden, begun at that at that time, has developed into an Agricultural Department in the College of Arts and Sciences with a most interesting and growing experimental work. For this the Pennsylvania State College and Kansas State Agricultural College have assumed part responsibility. Their representatives are carrying on a work which commends itself in a peculiar way to both people and government in Kwangtung.

So far more than a hundred students have gone from the Canton Christian College to American universities. The aim, however, is to prepare students at Canton to give as effective service to their country as if they had studied abroad.

In 1916 changes were introduced providing for a College proper with a student life distinct from that of the Secondary School, so that the nucleus of students who for many years have been studying college courses has become a true College community. This phase of the work of the Canton Christian College is being emphasized so as to meet the pressing need in South China for men of the highest training to become the teachers and leaders of their people.

The College Library

THE COLLEGE LIBRARY, housed in Grant Hall, consists at present of about 8000 bound volumes (chiefly in English and other European languages), about 6000 volumes in Chinese, bound in Chinese style, and a large collection of pamphlets. Separate department libraries are equipped from the main library as class and department needs may require. The library receives periodicals of scientific and general interest, the bound files of which are in some cases quite complete.

The library is classified according to the Dewey decimal system and card catalogues are maintained according to author, title and subject.

The library aims to serve the needs of students in the various college courses. Besides the material in the library itself, faculty members customarily place their private libraries at the service of students, so that students have access to not less than 15,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, the social sciences and education, are unusually well-selected and valuable.

The library serves as one of the repositories of the Carnegie Institution of Washington, and has a complete set of its valuable scientific publications.

A special effort has been made to build up a good working library on China and the Chinese. The library subscribes to all Library of Congress (Washington) cards relating to China, and thus maintains this highly valuable bibliographical list.

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Students have direct access to the stacks, and are granted liberal privileges of withdrawing and using books. The library is open evenings as well as during the day, and special advantages are offered college students for study in the library reading room and for use of library facilities at other than regular hours.

The College Museum

THE COLLEGE MUSEUM, located in Martin Hall, has a selection of articles and specimens of general and scientific interest. In the collection are over a hundred stuffed birds, about 200 specimens of woods, about a thousand coins, including many ancient Chinese coins, a number of fossil and mineral specimens, collections of local butterflies, moths, insects and reptiles, several industrial exhibits, and miscellaneous articles of archeological, scientific and popular interest. The museum is equipped with proper cases for the preservation and display of its specimens.

The College Herbarium

THE BUREAU OF SCIENCE in the Philippines and the Department of Agriculture of the United States are liberally co-operating with the college in the establishment of an herbarium in charge of a member of the agricultural Department. The herbarium has been organizd for only a short time and has already in its collection more than 2000 species of plants collected within a radius of 60 miles of Canton. Collections from the Philippines and other lands are also found in the herbarium and valuable exchange material with the United States and European countries is being acquired. The local survey is being extended into the interior regions of South China. Students and friends of the college are urged to cooperate in the collection of specimens so as to get as soon as possible an adequate knowledge of the plants of this region.

Publications

THE COLLEGE has issued a few *text-books* in English and in Chinese and is beginning to issue *special bulletins* upon scientific subjects. A list of these is given elsewhere in this catalogue.

THE CANTON CHRISTIAN COLLEGE MAGAZINE, or LING NAAM MAGAZINE, is published quarterly and mailed to subscribers direct for $0.60 per year.

THE STUDENT CHRISTIAN ASSOCIATION issues a *hand-book* annually, and a *weekly news sheet* in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is $0.60 per year.

The following *bulletins* and *leaflets* are issued to give information about the school, and may be obtained by writing to the head of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

NAME	CHARACTER
Calendar	Chinese leaflet on dates, fees, entrance, etc.
Regulations and Information	Chinese bulletin applicable to all schools.
Catalogue of College of Arts and Sciences	English bulletin on courses, regulations, etc.
Secondary School Catalogue	Chinese bulletin on courses, regulations, etc.
Elementary School	Chinese leaflet on courses, fees, etc.
Summer School	Chinese leaflet on courses, fees, etc.
"Taai Koon"	Chinese bulletin, illustrated, for contributors.
Canton Christian College	English bulletin, illustrated, for contributors.

Organization of the Schools

THE CANTON CHRISTIAN COLLEGE comprises three grades of schools: The Elementary School (5 years), the Secondary School for Boys (5 years), and the College of Arts and Sciences (5 years, including the Sub-freshman year).

The Elementary School

The Elementary School covers the period of childhood from the age of eight to fourteen years. It provides an atmosphere of both home and school. It covers the work of the first, second, third, fourth and fifth primary grades, and is open to boys and girls.

The Secondary (Middle) School

This School cover the period of adolescence between the ages of thirteen and eighteen years, and undertakes to guide and assist development during this formative period. The five grades are the usual higher primary (grammar) sixth and seventh, and the middle school first, second and third. The middle school fourth year is the college Sub-freshman, and the fifth is the college Freshman year, after which a certificate is given.

The purposes of the secondary school are two: to prepare for life, and to prepare for the choice and study of a professional course.

The College of Arts and Sciences

This is open both to men and to women and comprises five years, the first of which is of Middle School rank but is grouped with the College for administrative purposes. The five years are called Sub-freshman, Freshman, Sophomore, Junior and Senior respectively.

In general, the purpose of the College of Arts and Sciences is to fit students for definite lines of intelligent leadership and service in China. With this end in view, the College offers instruction in four groups of associated studies. A more complete and detailed statement of these courses is given in a subsequent section.

The College of Arts and Sciences furnishes students a collegiate education of the thoroughness and general excellence of that to be obtained in the colleges and universities of foreign countries. The student has the advantage of keeping in close touch with his own country and of correlating his education with the economic, social and general scientific needs of China.

It is felt that Chinese students can be of largest service to their country if their collegiate education be fully provided in China; that only the occasional student seeking further research will need to go abroad for study, and then only for graduate work of a highly specialized character.

The Canton Christian College offers *unusual facilities* in its College of Arts and Sciences. The classes are kept small, in order that each student may receive a maximum of individual attention from the instructor.

Each student is under the special care of a *faculty advisor*, with whom the student can confer freely, not only on academic matters but on personal affairs as well. Each student should feel that his advisor is genuinely interested in his welfare and it is to the advantage of the student to seek his advice and help.

The *college physician* attends all students who may require medical attention and gives each student a thorough medical examination annually.

For other details as to the College of Arts and Sciences, see the appropriate sections that follow in this catalogue.

COLLEGE OF ARTS AND SCIENCES

Matriculation and Standing

A STUDENT who desires to enter the Canton Christian College of Arts and Sciences should first make *application* to the Dean.

The acceptance of an applicant by the College for the first time is called his *matriculation*.

When a student enters the College after having been matriculated or re-enters the College as an old student the act is called his *enrollment*.

On first entering the College the applicant will be given an *application blank*, which he may fill out, assisted by the Dean or his probable Advisor. He will then secure from the Dean or his Advisor an *enrollment card*, and in consultation with his Advisor or Dean will indicate the particular courses for which he expects to register. When this card has been signed by the Advisor and Dean, the student will take the card to the Bursar for the payment of his fees. One portion of the card, on which will be indicated the courses for which the student has registered, and which will bear the signature of the Advisor and Dean, and the receipt-stamp of the Bursar, will be returned to the student by the Bursar. The student will then consult the *schedule of classes* found on the bulletin board, and determine his own schedule for each week. On going to classes for the first time, he should exhibit his receipted enrollment card to each teacher, who may enroll him as a member of the class. In case the student is not able to present a receipted enrollment card the first time, the student must show a statement from the Bursar to the effect that payment of fees has been arranged for. *No credit* can be given for work done unless a student is properly enrolled in a class, nor can any student be permitted to attend classes without having been properly enrolled, except by special permission of the Dean. Therefore it is to the interest of each individual student to make sure that he accomplishes his own registration each semester in each class.

No change can be made in the enrollment schedule of a student after he has once enrolled, except by special permission granted by both Advisor and Dean. As this permission will be given only for good reasons that could not be foreseen at the time of

enrollment, students should make very sure of their schedule of courses at first enrollment. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Dean.

Students enrolling four weeks or more after the opening of a semester cannot receive full credit for work done during that semester, even though they should be able to make up all work lost.

Unless specially excepted, a student must enroll in one of the four groups of courses: General Arts, Natural Science, Social Science or Agriculture. A student may elect any subject open to his class and suitable to his line of study, provided, of course, he shall have had the prerequisite courses. At least 16 credit-hours must be attempted each semester, except in case of illness or when a student is doing other work of recognized character. A student will normally be expected to carry about 16 to 20 credit-hours, the number of credit-hours depending upon the character of work being studied. The maximum for students in the Natural Science and Agricultural Groups is 22 hours, for others 20 hours. The maximum for Sub-freshmen is 25 hours.

Credit will be given for work done without regard to how small an amount may be done at one time, provided it be of approved quality. All credit is given by points or credit-hours. In general, one credit-hour represents one hour a week of class-room work or two hours a week of laboratory work for one semester.

Credit may be secured by non-resident students for satisfactory work done by visits or by correspondence. Not over thirty points thus obtained may count toward a degree.

The passing grade is 70. Grades between 60 and 69 may be accepted, if the student desires and provided permission is given by the faculty, as winning one-half the points that would have been secured by a passing grade.

Students are ranked according to the number of points they have secured. A student having less than 30 credits shall be ranked as a *Freshman*, one having 30 but less than 65 credits as a *Sophomore*, one having 65 but less than 100 as a *Junior*, and one having 100 credits or more as a *Senior*.

As a rule the College expects to give any course offered if a sufficient number of properly qualified students apply, but it reserves the right to alter or to withdraw any course.

General Regulations

Note: For additional regulations and details, see the Bulletin of Regulations and Information, printed in Chinese.

EVERY STUDENT under this faculty must engage regularly in some *athletic work* or drill. Sub-freshmen may be required to serve as officers in the secondary school battalion.

All students are required to attend *daily chapel* and *Sunday morning exercises*.

Students are expected to wear *academic dress* at the first religious service of the College on the second Sunday of each month, and at other times on request.

Permission for *absence* from classes or from College must be secured from the advisor *before the absence*. Unpardonable absences may lose a student his credits or even his place in the College. Rolls may be called for Sub-freshmen.

Students leaving College without permission forfeit all rights and privileges as students and can not be received again except as new students.

Grades are made up at the end of each semester by a combination of examination grades, daily grades, and grades for other work. Instructors may be asked also in the middle of the term for an estimate of the student's standing. The passing grade is 70.

The Faculty endeavors to arrange frequent *lectures* by specialists upon subjects of general interest to the faculty and students. Lectures and entertainments on Saturday evenings are provided. These are also usually open to secondary school students.

All students are on their *honor* to do their own work on examinations and other work for which credit is sought. Obtaining or giving of aid in such work is considered dishonest.

Re-examinations may be secured from the instructor by giving evidence of sufficient special preparation.

Since students are permitted to study in the *dormitory* and the rooms are open for inspection at any time, they must be kept neat, orderly and quiet. No dining is allowed in the dormitory.

The management of the *Boarding Department* is in the hands of the Superintendent with the help and advice of a student committee elected each semester.

Regulations for College Women

1. College women, except daughters of the staff, should all live in dormitories. Special permission may be given to near relatives of the Staff, but for this the consent of the President is necessary.
2. Young women may go to Canton only with chaperon, except under special permission based upon the written request of parent or guardian.
3. Young women must be back on the campus before 6:30 p.m. between November and February inclusive; all other months before 7:30 p.m.
4. Young women may not under any circumstances enter the men's dormitories or the space within the dormitory quadrangle.
5. Young women may not take walks after dark.
6. Young women may receive callers in the reception room of their dormitony until 7:30 p.m. any evening, and on Sundays and Mondays until 9:30 p.m.
7. College women are responsible directly to the Dean of Women for their personal conduct and relationship to the College.

Organizations and Meetings

Formation of College Organizations. The formation of any student organization on the College grounds must be approved by the executive of the school concerned. Such approval must also be obtained for its constitution, regulations, fees, and activities; likewise for any subsequent changes in the same. A list of the college organizations is given elsewhere in this catalogue.

Finances. The annual or semester budget of each general student organization (that is, one composed of a majority of the students in any school), and of each student organization with a budget of over $200 H.K., must be approved beforehand by the executive of the school concerned.

All accounts of such organizations, and of teachers' organizations, must be audited, as soon as closed for the year or semester, by the College Auditor and a copy filed with the Bursar. Any unbusiness-like use of funds must be reported by the Auditor to the President and any serious departure from the budget to the executive who approved it.

Smaller student organizations or classes must keep their expenditures within their regular fees. For breaches of these rules, the president and treasurer of the organization will be held personally responsible.

The raising of money or soliciting of subscriptions by any individual or organization on the College grounds without the consent of the President is strictly prohibited.

Meetings. Meetings of the student body or general student organizations may be held after obtaining permission of the executive of the school concerned, and after posting a notice of the meeting in both English and Chinese on the bulletin board of the school concerned, or having it announced at the proper chapel service. Permission for regular scheduled meetings may be obtained in advancc for a whole year, or until changes are made.

Whenever the Auditorium is to be used for any purpose it is necessary to reserve the use of it by application to the President.

The word "meeting" in all cases includes parades and celebrations.

No secret societies may be formed, except under special regulations.

Student Council

The Student Council is composed of the following members: the President of the Student Christian Association, the President of the College Student Union, the Middle School Student Representative, and the President of the Canton Christian College or his appointee. Its function is to provide efficient means of conducting any affairs that concern the students of more than one school. It may, when necessary, call meetings of the students through the proper representatives.

Scholarships

Applications.

Any student or prospective student needing financial assistance should apply to the Dean for information and application blanks.

FUNDED SCHOLARSHIPS.

The following funded scholarships are awarded each year to deserving students: Taam Yau Fan Scholarship, Charles T. Bagby Scholarship, Henry Martin Scholarship and Edmunds Memorial Scholarship. These represent funds of $1,000 gold each, the interest from which is given annually as a loan to students under certain conditions.

ANNUAL GIFT SCHOLARSHIP.

Mr. Francis A. Carl, Commissioner of Customs in Canton, provides an annual gift scholarship covering tuition for one student.

MISSION SCHOLARSHIPS.

A student who is the son or daughter of a Christian pastor or mission worker may on application to the proper faculty be granted a Mission Scholarship covering his tuition.

M. T. TANG SCHOLARSHIP IN BUSINESS ADMINISTRATION.

Through the generosity of Mr. M. T. Tang, of Hongkong, a former student, who has donated $1,500 H. K. currency for this purpose, special scholarship aid is offered to students in business administration in grants of $50 each, not subject to the loan conditions which apply to ordinary scholarship aid. Awards may be made to more than one student in any given year, and the same student may be awarded more than one unit. Applicants for aid under this scholarship fund should write to the Dean, and the awards, which may be made after a competitive examination, will be detemined by the faculty.

GENERAL SCHOLARSHIPS.

In addition to the scholarship provisions described above, the College will make it possible for any student who needs financial assistance to get help. The amount of this assistance will be determined largely by the student's scholastic standing, but due weight will be given to his diligence, non-scholastic activities, and character.

It is hoped that those who are interested in this phase of the work of the College will give us Memorial Funds, the interest on which is to be used for scholarship aid. Annual gifts of $50, $100, $150 or $200 will also make it possible to continue a liberal scholarship policy.

Meanwhile, the College will render all the assistance that it is able to give, in addition to the Funded and Annual Gift Scholarships. Students are urged to confer with their Advisors or the Dean regarding additional aid if they need it, and applicants for admission who need such assistance are asked to get and fill out scholarship application blanks at as early a date as possible.

Rules Regulating Scholarships

Every student receiving scholarship aid, except as a prize, is required to sign a note in recognition of same, to be repaid as follows:

1. Any student receiving aid during his middle school course, including the Sub-freshman year, remaining through the Sub-freshman year, shall be considered to have repaid one-third of his indebtedness existing at that time.

2. Any student finishing the College course shall be considered to have repaid two-thirds of his indebtedness at the time of graduation from the College.

3. A student entering Christian work, that is, who is employed by mission societies or churches, may, on application and approval, be considered to have repaid his indebtedness at the rate of one-third of the amount owing at the time he left school, for every year of such service.

4. All indebtedness not discharged according to the above conditions shall be repaid at the annual rate of one-tenth of the amount due when the student left school, or when he left the service of the mission. The first payment will be due one year from date of leaving school or mission. No money payment is necessary while the student is in the employ of a mission, or while studying for more than half time in another school.

5. All overdue payments shall bear interest at 4 per centum per annum.

Prizes

HONOR PRIZE, awarded annually to the student who ranks highest in scholarship, deportment and attendance.

COLES SCIENCE PRIZE, awarded annually to the Freshman who attains the highest general average of scholarship in science, on the basis of all science work done in his Sub-freshman and Freshman years.

COLES MATHEMATICS PRIZE, awarded annually to the student who has done the most meritorious work in mathematics during the year in Freshman or Sub-freshman courses.

ATHLETIC PRIZE, awarded annually to the student who has done the most during the year to promote athletics.

CHAMBERS CHINESE ESSAY PRIZE, the gift of Rev. R. E. Chambers, D.D., Canton, and awarded annually to the student submitting the best essay in Chinese.

Honor Certificates

A student who maintains an exceptionally high standing may be declared an honor student and receive an Honor Certificate at the commencement exercises of the year. The number of such honor students may not exceed five per centum of the total number of students enrolled. The awards are made chiefly on the basis of scholarship, but due weight is given to diligence, non-scholastic activities and personal character.

Student Aid

EMPLOYMENT BUREAU. The College maintains a student employment bureau to assist students desiring to earn a portion of their expenses and to secure positions for graduates and other students. Others seeking a position in a school in this province would also do well to apply.

The average student who undertakes outside work is not able to carry a full schedule of studies and should allow a longer period in which to complete the college course. Excellent opportunity is offered in the agricultural department to students who have completed one or two years of the course and who are willing to spend the remainder in part time employment. This enables them to secure the much needed experience for success in this field.

STUDENT LOAN FUND. A small fund has been accumulated by gifts from students, teachers and friends. This is available for the aid of deserving students in need of help. Once each month a collection is taken at Sunday service and turned over to this fund by the ushers. Students, teachers, churches, missions, missionaries, and other friends are urged to contribute to this fund. The Bursar takes care of the money.

A student wishing to borrow from this fund should send in an application, addressed to "The Manager of the Student Loan Fund," a month before the close of the previous semester. Applications sent in later than this will be less likely to be granted. Not more than $50 is loaned to one student in a year. On securing a loan the student is required to sign a note promising to repay as soon as he is able. The loans bear interest at 6 per centum per annum from the time the student's name ceases to be on the rolls of the school; the interest is compounded if not paid annually. The loan is determined by the Student Aid Committee and is secured by the student from the Bursar upon an order from the Manager. Notes are given to the Bursar and loans and interest are paid to him.

SCHOLARSHIPS. See Page 21.

College Organizantions

COLLEGE STUDENT UNION

The College Student Union is the official organization of the entire College student body. In enjoys liberal powers of self-government and control of matters of general student interest. Its constitution provides for an executive committee, and special committees responsible for discipline, athletics, boarding and social matters. It elects its officers and committeemen each semester.

STUDENT CHRISTIAN ASSOCIATION

The Student Christian Association provides students with ideal facilities for a voluntary religious life and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well equipped center for such activities. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night school for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall.

Arts and Science Club

The Arts and Science Club is an organization of the Faculty and advanced students of the College which has the object of stimulating is members to keep abreast of modern scientific ideas and to encourage reports on original investigations.

Membership may include any of the English-speaking Faculty of the entire College. All other English-speaking persons on the campus, Freshmen, Sophomores, Juniors and Seniors are eligible for associate membership. There are no dues.

Regular meetings are held once a month and special meetings are called from time to time to hear distinguished visitors.

College Literary Society

The students maintain the College Literary Society, membership in which includes all college students of Freshman grade or above and such faculty members as care to join. Meetings are held every week for declamation, impromptu speaking and translating, and other forms of public address. Programs are rendered in English, Mandarin, and Cantonese. The society seeks to improve its members in public speaking, to familiarize them with parliamentary procedure, and in general to encourage literary activity.

Agricultural Society

The pupose of the Agricultural Society is to develop interest in the agricultural work of the College, and to promote agricultural education, investigation and extension in South China. Membership is active, associate, or honorary. The society meets on the first Monday of each month during the academic year.

College Band

A band of twenty-five pieces has been organized under the leadership of a member of the American staff. It plays for the middle school cadets at drill and also at many other functions.

College Bookstore

The College Bookstore, located in Grant Hall, maintains a stock of text-books and other school supplies required by students. These are sold practically at cost.

College Bank

The College Bank receives current and time deposits, issues notes of small denominations, and furnishes local banking facilities.

College Press

The College Press serves the College and community for job and book printing, both in English and Chinese. Most of the English bulletins of the College, including this catalogue, are printed by the College Press.

Admission to the College

A STUDENT seeking admission to the College of Arts and Sciences should first make application to the Dean. This should be done some time before the opening of the school year, so that the applicant may be advised in case admission appears improbable or impossible. The intending student should procure a blank application for matriculation, fill it out completely and return it to the Dean before the opening of school.

An applicant must have a clean record from the school or schools last attended. He should he able to furnish a detailed statement of work done in Middle School, certified by the principal or proper officer of the school from which he comes. Blanks for this purpose may be secured on application to the Dean.

Admission to the Sub-freshman Class

To enter the *Sub-freshman Class* (Fourth Year Middle School) the applicant must present a certificate of sufficiently high standing from an accredited school, or else be able to pass examinations on the following work: English Grammar and Composition, with sufficient readiness of speech and understanding to enable him to do his work through the medium of the English language; Algebra as far as quadratic equations; Plane Geometry; Geography of the World; Elementary Science, including simple Physiology and Hygiene; Chinese History; History in brief of one Western country; Chinese Literature, and creditable skill in Chinese Composition.

Admission to the Freshman Class

To enter the *Freshman Class* (Fifth Year Middle School) the applicant must offer in addition to the above the following: Ancient and Mediaeval History; Intermediate Algebra (including progressions and logarithms); Solid Geometry or Plane Trigonometry; General Science* with laboratory work and note-book records; and some knowledge of English Literature. No advanced credit can be granted students coming from other institutions for work unless it is more advanced than any offered in the Sub-freshman year. Other subjects of equivalent value may be offered in place of those enumerated above. A fair knowledge of the Bible will receive due credit. Each case will be judged on its merits. The Dean will welcome correspondence on individual cases.

Accredited Schools

Schools with standards similar to those of the Middle School of the Canton Christian College may become accredited schools and recommend their students for admission without examinations.

On recommendation of the principal of the school, students will be admitted to classes of the College of Arts and Sciences without examinations from True Light Middle School, Noyes Memorial School and Pui Ching Middle School.

Senior and Junior Local Certificates

Students who have passed the matriculation examination of the University of Hongkong or who hold certificates of the senior Oxford and Cambridge local examinations, will be admitted to the Freshman class, without further examination on the subjects covered by the senior local certificate, except Chinese.

Students who have passed the junior locals of the University of Hongkong, or of Oxford and Cambridge, will be admitted to the Sub-freshman class without further examination on the subjects covered by the junior local certificate, except Chinese.

Conditions

Applicants deficient in one or two subjects may be admitted with conditions. Special tutoring may be secured. New students are expected to remove conditions within one year.

*Or a good laboratory course in Physics.

General Statement of Courses

IN THE PREPARATION of the courses in the College of Arts and Sciences the aim has been to afford the best possible opportunity for study, practice, and investigation along varied lines which will prepare students for definite fields of usefulness, or lead to further study in a chosen field.

At present five groups of subjects are offered in the College of Arts and Sciences: General Arts, Natural Science, Social Science, Agriculture and Pre-medical. All of these courses presuppose the Canton Christian College Secondary (Middle) School course or its equivalent.

General Arts Group

Those students who desire a liberal education preparatory to entering such professions as middle school teaching, translating, interpreting, journalism, literary work, lecturing, religious service, and the like, will find it best to follow, in the main, the *General Arts* course.

Natural Science Group

Those students who look forward to a scientific and technical career, such as biological research, chemical and physical engineering, mining, etc., or the teaching of such subjects, will follow the *Natural Science* group of studies.

Social Science Group

Those seeking to prepare for business, law, banking, foreign commerce, statistical research, social and government service, etc., will get the best preparation by following the *Social Science* group of studies.

Agricultural Group

The aim of the college courses in *Agriculture* is to give the student such experience in the field and theoretical knowledge that he can appreciate the problems of the peasant and really help him. Each student puts into practice in a garden of his own the ideas he learns in studying horticulture. He is also instructed in marketing. For the courses in animal husbandry there are on the campus foreign dairy cows, dairy and work carabao, hogs and horses. The student is also allowed a wide range of options in education, economics

and business, or directed into more advanced science and original research, so as to enable him to prepare or qualify for opportunities in educational, commercial and investigational agriculture.

Pre-medical Group

The *Pre-medical* group of studies aims to prepare students for entrance to the best medical colleges of China and abroad, and seeks to maintain a standard sufficient to enable those who have completed the sophomore year in this group to enter directly such institutions as the Peking Union Medical College and the Hunan-Yale College of Medicine.

Affiliation with the Theological Seminaries is Canton

Arrangements have been made with the Canton Union Theological College and the Graves Theological Seminary of the Southern Baptist Convention Mission, Canton, whereby students of the Canton Christian College may elect certain courses at either seminary and secure credit both towards a degree from the College and a diploma from the seminary. A reciprocal privilege is enjoyed by students of the two seminaries. Full details as to this matter may be obtained on application to the Dean of the College of Arts and Sciences, or to the president of either seminary.

Certificates for Work Completed

STUDENTS WHO WISH to pursue professional study elsewhere will be given complete and detailed certificates for the work done at this College up to the last semester they have completed, and every attempt will be made to secure for them proper standing at the school to which they go.

Graduation and Diplomas

Junior Certificate

When a student has completed 36 credits of collegiate work and has removed all entrance conditions, he may be awarded the *Junior Certificate.*

Degree of Bachelor of Arts

In order to qualify as a candidate for the Degree of Bachelor of Arts, a student must have completed 140 credits* of collegiate work, including the prescribed amount of work in each course as required in the group in which he seeks his degree. A student who is a candidate for a degree in the Agricultural Group must present a thesis which has been approved by the Director of the Agricultural Department.

Candidates for a degree must be students in good standing and must have been in residence for at least two semesters preceding candidacy.

Candidates for a degree must be recommended by the Faculty of the College of Arts and Sciences and approved by the Representative of the Regents of the University of the State of New York. The diploma is given by the Regents of the University of the State of New York, upon recommendation by the Trustees of the Canton Christian College. A diploma fee of $6 U.S. currency is charged.

The degree is conferred upon the candidate at the commencement next following the completion of his course of study and other requirements.

Graduate Study

At present, the College offers but limited facilities for graduate study. The regulations covering this work may be learned on application to the Dean.

Graduate Standing Abroad

Graduates of the Canton Christian College, upon presentation of a B.A. diploma and transcript of academic record, will be admitted *without examination* into the graduate schools of Columbia University, Yale University, University of California, University of Wisconsin, Johns Hopkins University, Cornell University, University of Chicago, University of Michigan, University of Minnesota, University of Washington, and others, on substantially the same basis as graduates of other accredited colleges and universities in America.

*One credit is represented by one hour recitation or two hours laboratory work per week for one semester.

Required and Elective Courses

IN ALL GROUPS, certain courses are required of all students. The required courses are found chiefly in the lower classes of the College, but even here a wide range of electives is offered. In general, a student may take any course which is open to members of his class in any group, provided he shall be taking the required work in his own course and shall have had the prerequisite work in the subject.

In the following tables the studies are indicated which are open to a student for each semster in the College. The student should first enroll in the prescribed courses, if possible. No student can receive his degree unless he shall have completed his required courses or their equivalent. Courses designated by a small letter *a* or *b* following the course number, e.g., English Ia and Ib, are year courses, and the entire course must be completed before credit can be counted toward a certificate or degree.

Prescribed Subjects for Degree

In order to be eligible for the B.A. degree, the student must present at least the following credits in prescribed subjects:

General Arts Group

English	16 credits
History	12 ,,
Economics	8 ,,
Religion	8 ,,
Composition in Chinese*	16 ,,
Science	10 ,,
Psychology	3 ,,
Philosophy	3 ,,
Government, Sociology, History or Economics	6 ,,
Total prescribed	82 ,,

Natural Science Group

English	8 credit
Science	†54 ,,
Mathematics	8 ,,
Religion	8 ,,
Composition in Chinese*	16 ,,
Total prescribed	94 ,,

Social Science Group

English	8 credits
Economics	14 ,,
History	12 ,,
Science	10 ,,
Religion	8 ,,
Composition in Chinese*	16 ,,
History, Government, Economics, Business or Sociology	24 ,,
Total prescribed	92 ,,

Agricultural Group

English	2 credits
Biology	15 ,,
Chemistry	15 ,,
Agricultural courses	54 ,,
Economics	8 ,,
Composition in Chinese*	16 ,,
Religion	8 ,,
Total prescribed	118 ,,

* Or 2 credits for every semester completed at this College.

† At least 12 credits must be presented in each of the following sciences: Biology, Chemistry and Physics.

Sub-freshman Courses

General Arts, Natural Science, and Social Science Groups

First Semester Subject	Hrs.	Second Semester Subject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
History A	3	History B	3
Religion A	1	Religion B	1
Chinese A	2	Chinese B	2
Composition in Chinese A	2	Composition in Chinese B	2
Elective	4 or 6	Elective	4 or 6
to be selected from		to be selected from	
†English C	2	†English D	2
Mathematics A	4	Mathematics B	4
Business A	4	Business B	4
Education A	2	Education B	2
Chineses C	2	Chinese D	2
Total	23 or 25	Total	23 or 25

Agricultural Group

First Semester Subject	Hrs.	Second Semester Subject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
Farm Crops A	‡5	Animal Husbandry B	‡5
Religion A	1	Religion B	1
Chinese A	2	Chinese B	2
Composition in Chinese A	2	Composition in Chinese B	2
Elective	2 or 4	Elective	2 or 4
to be selected from		to be selected from	
†English C	2	†English D	2
Mathematics A	4	Mathematics B	4
Business A	4	Business B	4
Education A	2	Education B	2
Chinese C	2	Chinese D	2
Total	23 or 25	Total	23 or 25

* 4 hours class-room, 4 hours laboratory or field work, 6 credit-hours.

† English C and D may be required of any student upon recommendation of the instructor in English A and B.

‡ 3 hours class-room, 4 hours laboratory or field work, 5 credit-hours.

Pre-medical Group: See page 38.

SUMMARY OF COLLEGE COURSES

GENERAL ARTS GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Composition in Chinese I	2	Composition in Chinese II	2
	English Ia	4	English Ia	4
	History Ia	3	History Ib	3
	Biology I	3	Religion I	2
	Economics Ia	4	Economics Ib	4
	Elective, not more than	4	Elective, not more than	5
Sophomore	Composition in Chinese III	2	Composition in Chinese IV	2
	English	3	English	3
	History	3	History	3
	Religion		Religion	
	† Science		† Science	
	Electives		Electives	
Junior	Composition in Chinese V	2	Composition in Chinese VI	2
	English		English	
	Religion		Religion	
	Electives		Electives	
Senior	Composition in Chinese VII	2	Composition in Chinese VIII	2
	Psychology I	3	Philosophy I	3
	English		English	
	Electives		Electives	

NOTES: * One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

† A course in Science (Biology, Chemistry or Physics) is required of Sophomores who have not had a full year's course in a College science.

SUMMARY OF COLLEGE COURSES

NATURAL SCIENCE GROUP

(Maximum 22, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Composition in Chinese I	2	Composition in Chinese II	2
	Biology I	3	Religion I	2
	Biology IIa	3	Biology IIb	3
	Chemistry Ia	6	Chemistry Ib	6
	English Ia	4	English Ib	4
	Elective, not more than	4	Elective, not more than	5
Sophomore	Composition in Chinese III	2	Composition in Chinese IV	2
	Physics, Chemistry or Biology		Physics, Chemistry or Biology	
	Religion		Religion	
	Electives		Electives	
Junior	Composition in Chinese V	2	Composition in Chinese VI	2
	Religion		Religion	
	Electives		Electives	
Senior	Composition in Chinese VII	2	Composition in Chinese VIII	2
	Electives		Electives	

NOTES: * One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

SUMMARY OF COLLEGE COURSES

SOCIAL SCIENCE GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Composition in Chinese I	2	Composition in Chinese II	2
	English Ia	4	English Ia	4
	History Ia	3	History Ib	3
	Biology I	3	Religion I	2
	Economics Ia	4	Economics Ib	4
	Elective, not more than	4	Elective, not more than	5
Sophomore	Composition in Chinese III	2	Composition in Chinese IV	2
	Economics	3	Economics	3
	History	3	History	3
	Religion		Religion	
	†Science		†Seience	
	‡Electives		‡Electives	
Junior	Composition in Chinese V	2	Composition in Chinese VI	2
	Religion		Religion	
	‡Electives		‡Electives	
Senior	Composition in Chinese VII	2	Composition in Chinese VIII	2
	‡Electives		‡Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†A course in Science (Biology, Chemistry or Physics) is required of Sophomores who have not had a full year's course in a College science.

‡Chiefly from courses in History, Economics, Government, Business Administration, and Sociology.

SUMMARY OF COLLEGE COURSES

AGRICULTURAL GROUP

(Maximum 22, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Composition in Chinese I	2	Composition in Chinese II	2
	Chemistry Ia	6	Chemistry Ib	6
	Biology I	3	Farm Equipment I	2
	Biology IIa	3	Biology IIb	3
	Animal Husbandry I	4	Landscaping I	2
	Economics Ia	4	Economics Ib	4
	English IIa	1	English IIb	1
			Religion I	2
Sophomore	Chemistry IIa	5	Chemistry IIb	5
	Biology III	4	Biology VI	3
	Animal Husbandry II	3	Animal Husbandry III	3
	Horticulture I	3	Horticulture II	3
	Composition in Chinese III	2	Composition in Chinese IV	2
	Religion	2 or 3	Religion	2 or 3
	†Electives		†Electives	
Junior	Chemistry VII	4	Farm Crops I	3
	Irrigation and Drainage I	3	Plant and Animal Breeding I	3
	Composition in Chinese V	2	Composition in Chinese VI	2
	Religion	2 or 3	Religion	2 or 3
	†Electives		†Electives	
Senior	Biology VIII	3	Farm Management I	3
	Animal Husbandry IV	3	Soils II	3
	Soils I	4	Composition in Chinese VIII	2
	Composition in Chinese VII	2	†Electives	
	†Electives		Thesis	
	Thesis			

*One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

NOTES: †Electives may be taken in courses offered in other groups. Credit may be secured from special investigational courses, or from assigned investigational work in which the student may be particularly interested.

The following courses are suggested as electives: Farm Equipment II, Geology, Forestry, Problems in Biology, Sericulture, Meats, Diseases of Farm Animals, Fruit Culture.

SUMMARY OF COLLEGE COURSES

PRE-MEDICAL GROUP

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Sub-Freshman	English A	5	English B	5
	Physics A	6	Physics B	6
	Religion A	1	Religion B	1
	Composition in Chinese A	2	Composition in Chinese B	2
	Chinese A	2	Chinese B	2
	Mathematics A	4	Mathematics B	4
	English C or History A	2 or 3	English D or History B	2 or 3
	Total	22 or 23	Total	22 or 23
Freshman	Chemistry Ia	6	Chemistry Ib	6
	Biology I	3	Religion I	2
	Biology IIa	3	Biology IIb	3
	Composition in Chinese I	2	Composition in Chinese II	2
	English Ia	4	English Ib	4
	German I	5	German II	5
	Total	23	Total	22
Sophomore	Physics Ia	6	Physics Ib	6
	Chemistry IIa	5	Chemistry IIb	5
	Chemistry IVa	3	Chemistry IVb	4
	Composition in Chinese III	2	Composition in Chinese IV	2
	Biology X	3	Biology III	3
	Biology XI	5	Biology XII	3
	Total	24	Total	23

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

COURSES OF STUDY IN DETAIL

AGRICULTURE

Professor G. W. Groff; Mr. C. O. Levine; Mr. Taam Sik Hung

THE CANTON CHRISTIAN COLLEGE has an ideal location and excellent facilities for the work of the various agricultural courses. It is situated just within the tropics, in the heart of the great Canton Delta, famous throughout the world for its intensive agriculture; within this area are grown a wide range of sub-tropical and temperate plants. The College is also in close proximity to the wonderful markets of Canton, where are found in season a wide variety of products of this and other provinces.

The College has a campus of more than one hundred acres, about twenty-five of which are devoted to modern farming, market gardening, fruit culture, grain growing, dairying, stock-raising, etc. The remainder of the campus is devoted to buildings and layout of grounds, on which will be found a large selection of native and foreign trees and shrubs. In the immediate vicinity of the College are the farms of scores of villages, which devote themselves almost entirely to agricultural pursuits. The Kwangtung Agricultural Experiment Station, with more than sixty acres of land, is directly across the river from the College and is easily accessible. The agricultural staffs of the two institutions are in close touch with each another and co-operate in various undertakings.

The College is also in co-operation with the United States Department of Agriculture and with the government of the Philippines. Important agricultural investigations are being carried out. The agricultural staff of the College is also directly associated with several state agricultural institutions in the United States. These connections offer to faculty and students every facility for keeping in touch with the most advanced methods of agriculture and for transmitting from one country to the other desirable agricultural practices.

Animal Husbandry

The courses in Animal Husbandry are so arranged as to give the student special instruction in the selection, breeding, feeding, marketing, and management of all kinds of live stock. Attention is given to sanitation and the treatment of the more common forms of diseases to which animals are subject. The student is taught to study the animal from the standpoint of the breeder and the feeder. The college live stock includes poultry, hogs, buffaloes both for

milk and draft purposes, modern breeds of horses and dairy cows. A model dairy of twenty buffalo and foreign cows supplies milk to the community. The management of this dairy offers practical demonstration to students interested in dairying.

B. Farm Animals. An introduction to the courses in Poultry and Live Stock which follow. Acquaintance with the various breeds and classes of farm animals; practice in judging and handling of farm animals.

Hunt and Burkett: Farm Animals.
Class-room 3 hours, field 4 hours (5 credits); one semestet.

I. Poultry. General problems of poultry raising including incubation, breeding, housing, feeding, etc. The field work consists of the actual care of a flock by students, under the supervision of an instructor. Prerequisite: Animal Husbandry B.

Lippincott: Poultry Production, supplemented with lectures and bulletins.
Class-room 2 hours, field 4 hours (4 credits); one semster.

II. Stock Judging. Horses, beef cattle, and hogs.

Gay: Principles and Practice in Live Stock Judging.
Class-room 1 hour, field 4 hours (3 credits); one semester.

III. Dairying. Dairy live stock judging and dairying; sanitation and live stock buildings.

Eckels: Breeds of Dairy Cattle.

Wing: Milk and its Products. Lectures and bulletins.
Class-room 1 hour, field or laboratory 4 hours (3 credits); one semester.

IV. Principles of Feeding. The digestive system and the process of nutriton; theory of practical economy of rations, both for maintenance and fattening all classes of animals. Practical training is given the student in feeding live stock owned by the College.

Henry and Morrison: Feeds and Feeding.
Class-room 2 hours, field work 2 hours (3 credits) one semester.

V. Diseases of Farm Animals. Elective. Common diseases of farm animals. The subject includes wounds and their treatment, examination of animals for diseases, diagnosis and treatment of diseases. Practice in castration, spaying, and caponizing. Instruction in obstetrics, care of mother at parturition, and diseases affecting mother and offspring. Microscope studies in the laboratory are made of the organisms and parasites associated with diseases. Sanitation, and other measures necessary for the prevention of diseases. Prerequisites: Animal Husbandry B and I.

Mayo: Diseases of Farm Animals.
Class-room 2 hours, field 2 hours (3 credits); one semester.

VI. Meats. Killing, dressing, and curing of beef, pork, mutton, and poultry. Prerequisites: Animal Husbandry B and I.
Lectures, supplemented with bulletins.
Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

Farm Crops

A. Garden and Orchard Crops. An introduction to the practical work of growing crops, including cereals, grasses, garden and orchard crops. Special emphasis is given to gardening and each student is required to maintain in cultivation a piece of ground which is assigned to him.

Hunt and Burkett: Farm Crops.
Class-room 3 hours, field 4 hours (5 credits); one semester.

I. Cereals and Grasses. An advanced study of cereals and grasses, including fiber crops, and methods for improvement.

Hunt and Burkett: Farm Crops. Bulletins and lectures.
Class-room 2 hours, field 2 hours (3 credits); one semester.

Farm Equipment

I. Field Equipment. The mechanical principles of different types of farm machinery, and the proper adjustment and operation of machinery in the field.

Davidson and Chase: Farm Machinery and Farm Motors.
Class-room 1 hour, field and laboratory 2 hours (2 credits); one semester.

II. Stationary Equipment. Elective. Special attention to stationary machinery, such as grinding, milling, and pumping machinery, and engines. The construction of farm machinery, and the grinding and repairing of tools is taken up in the laboratory. Prerequisite: Farm Equipment I.

Ramsower: Equipment for the Farm and Farmstead.
Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

Farm Management

I. The purpose of this course is to assemble and correlate the principles involved in agricultural subjects taught in the institution, and to aid the student in applying these principles to the successful management of a farm. Types of farming, methods of marketing, the labor questions and farm accounting are considered. The

relation of the live stock to crop production and the building up of a permanent agriculture receive special consideration. Exceptional opportunity is given students to obtain practical experience by assisting in the management of the college farms and live stock.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

Forestry

I. Propagation of forest trees; nursery methods and practices; the cultivation and care of trees in the farm wood-lots; a detailed study of trees suitable to Kwangtung; the composition and location of wind breaks; forest protection, etc. Elective. Prerequisite: Biology VI. Bulletins and reference reading.

Class-room 2 hours, field work 2 hours (3 credits); one semester.

Horticulture

The courses in horticulture are so arranged as to give the student special instruction in growing and marketing vegetables, flowers and fruits. A wealth of illustrative material for the classes in horticulture is found in the large collection of foreign and native species growing upon the college campus, in the lichee and citrus orchards to the south of the college, in the extensive vegetable gardens close at hand, and in the commercial flower gardens at Fati. Each student is required to maintain a garden of his own where he can put into practice the ideas received. Farm Crops A serves as an introduction to the courses in horticulture. In this course the student practices propagation from seed and cuttings and learns the varied requirements of different garden crops.

I. Graden and Orchard Management. The problems and possibilities of the market garden, the necessary equipment, soil requirements and sanitary methods of fertilization. Methods of starting early fall vegetables and flowers by protecting the seedling from the intense heat of late summer form a prominent place in the course. Systems of cropping; methods of tilling; irrigating; garding, packing and marketing. Bulletins and reference work.

Watts: Vegetable Gardening.

Class-room 1 hour, field work 4 hours (3 credits); one semester.

II. Plant Propagation. The natural and cultural methods of propagation; seeds; seed testing and seed growing; the production of seedings for stock; grafting, budding and layering; the making of cuttings; special requirements for propagating and growing commercial fruits and ornamental trees and shrubs.

Kains: Plant Propagation, Greenhouse and Nursery Practice.

III. Fruit Culture. Elective. A more specialized course in fruit growing, with special reference to the lichee and lungan, the citrus fruits and the papaya. An analytical study of the Sapindaceae and Rutaceae families of plants is conducted with the object of enabling the student to classify properly the fruits of these families, and of showing the student the possibilities of using the near and wild relatives of these fruits in propagating and hybridizing. A study of varieties is included. Low-land fruit culture as practiced in the delta regions of Kwangtung compared to hill culture as practiced in the United States.

Class-room 1 hour, field work 4 hours (3 credits); one semester.

Irrigation and Drainage

I. Irrigation water supply; construction of canals, reservoirs and ponds; pipe lines. Methods of applying water to various crops. Drainage, rainfall and evaporation; advantage and methods of draining retentive soils. Farm mechanics. Pumps, devices and appliances used in irrigating; making tile drains, etc. Map drawing of farm layouts. Farming.

Wilcox: Irrigation Farming.

Miles: Land Drainage.

Class-room 2 hours, field work 2 hours (3 credits); one semester.

Landscaping

I. This course gives to the student an idea of some of the requirements for beautifying homes and parks by the proper planting of flowers, trees, and shrubs. The various characteristics of plants are studied with their grouping in mind. Students are given some practice with the transit and level in the laying out of walks, etc.

Waugh: Landscape Gardening.

Class-room 1 hour, field work 2 hours (2 credits); one semester.

Plant and Animal Breeding

I. Principles of Selection and Breeding. The dependence of man upon domesticated animals and cultivated plants; the origin of domesticated animals from the wild; effect of natural selection; unit characters; variability of single characters; transmission of characters; heredity and environment; systematic improvement of animals and plants. The student is urged to devote his attention in the field to either plants or animals. The work on the papaya and rice being carried out on the campus offers ideal facilities in plant breeding, and the work on hogs, poultry and cattle in animal breeding.

Davenport: Domesticated Plants and Animals, supplemented by bulletins.

Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

Soils

I. Soil Physics. Microscopic study of soil particles, taking soil samples; determination of capillary moisture; influence of color on soil temperature; variation of soil temperature at different depths; the absorption of heat by soils; the effect of lime upon soil; determination of the weight of soil per acre; effect of humus on the water-holding capacity of soils; rate of rise of capillary water from soils; the effect of organic matter on the baking of soil. Mechanical analysis of soils.

Stephenson and Schaub: Soil Physics Laboratory Guide.

Class-room 2 hours, laboratory 4 hours (4 credits); one semester.

II. Soil Fertility. The study of food combinations of plants; the effect of different crops and different systems of farming upon the depletion of soil fertility; the proper methods of handling, preserving, and applying barnyard manure and night soil; the determination of the needs of soil for commercial fertilizers and the kind of fertilizers to apply. Prerequisities: Quantitative Analysis and Soils I.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

BIOLOGY

Professor C. W. Howard; Mr. J. F. Karcher

THE BIOLOGICAL DEPARTMENT is well equipped with microscopes and other instruments necessary for work in all lines of botany and zoology. A good herbarium and working collections of the local fauna are also accessible to the students.

I. General Biology. The fundamental principles of biology. This course is intended as a foundation for future work in biology and for those who wish to have a general knowledge of the subject but will not pursue it further. Prescribed for all students in the Freshman year.

Needham: General Biology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

IIa. Botany. Structure of plants and general function of plant organs. Classification of the plants of South China. Field work is emphasized. Prescribed for all students in the Natural Science and Agricultural Groups. Prerequisite: Biology I, or Biology I must be taken at the same time.

Ganong: Text-book of Botany for Colleges.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

IIb. Zoology. Comparative stuty of the various forms of animal life; collection, preparation and classification of local fauna. Prescribed for all students in the Natural Science and Agricultural Groups.

Galloway: Zoology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

III. Economic Entomology. A consideration of harmful and beneficial insects and other Arthropods, as related to both crops and animals. Prerequisite: Biology I, IIa and IIb.

Folsom: Entomology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

IV. Physiology. Physiology of the human body. Prerequisite: Biology I, IIa and IIb.

Stiles: Human Physiology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

V. Hygiene. Personal, domestic and civic hygiene. Prerequisite: Biology I, IIa and IIb.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

VI. Plant Physiology. Lectures and readings on the growth, nutrition, irritability, reproduction and variation of plants, combined with laboratory work. Prerequisite: Biology I and IIa.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

VII. Sericulture. The methods of producing silk in China and other countries. A study of the silk worm, its morphology, life history, diseases, and enemies. Prerequisite: Biology I, IIa and IIb.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

VIII. Agricultural Bacteriology. The nature of bacteria; fermentation; relation of bacteria to the origin of soil. The transformation of carbon and nitrogen; the manure heap and sewage; reclaiming lost nitrogen; relation of bacteria to the dairy and its products; relation of bacteria to miscellaneous farm products; Parasitic bacteria.

Conn: Agricultural Bacteriology.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

X. Parasitology. A study of parasitism and of the animal forms which cause parasitic diseases of man and domestic animals. Prerequisite: Biology I and II.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

XI. Comparative Anatomy. A comparison of the chief systems in the more important groups of animals. Laboratory work is stressed. Prerequisite: Biology I and II.

Lectures 2 hours, laboratory 6 hours (5 credits); one semester.

XII. Heredity and Evolution. The theories of evolution and the laws of heredity with their practical application. Prerequisite: Biology I and II.

3 credits; one semester.

XIIIa and XIIIb. Problems in Biology. Individual research work for advanced students under the supervision of an instructor. Prerequisite: Biology I, IIa, IIb and III.

3 to 5 credits; two semesters.

BUSINESS ADMINISTRATION*

Professor _____

Courses A and B are open to college students for three college credits each.

A. Elementary Business. This course aims to give a general knowledge of the principal business and commercial practices. An introductory study of the money, weights and measures of China, instruments of commercial credit, general office forms and practice, shipping, banking, insurance, etc.

Commercial Press, Publisher: Commercial Knowledge. 4 hours; one semester.

B. Elementary Business continued. Simple book-keeping, business correspondence, elementary corporation finance.

Klein: Bookkeeping and Accounting (An Introductory Course)

4 hours; one semester.

I. Business Organization and Operation. A study of modern enterprise as organized in the single proprietor, the partnership, the joint stock, and the corporate forms.

Duncan: Principles of Industrial Management. 3 hours; one semester.

II. Industrial and Commercial Geography. A survey of the industries and products of the various countries of the world.

Smith: Industrial and Commercial Geography. 3 hours; one semester.

III. History of Commerce. Growth of industry and commerce from ancient times to the present day. The industrial and economic life of the Greeks, Romans, and ancient Chinese; the feudal systems, the factory systems, and the industrial revolution; expansion of modern commerce; commercial transformation in the Far East.

Herrick: History of Commerce. 3 hours; one semester.

IV. International Trade and the Tariff. Principles of foreign exchange, with special attention to China. Recent tariff revision. Study of trade reports and statistics of China.

Bastable: The Theory of International Trade.

Chu: The Tariff Problem in China. 3 hours; one semester.

*Attention is called to the M. T. Tang Scholarship in Business Administration, described on page 22.

V. Corporation Finance. The organizing, managing and financing of a corporation; means by which consolidations and reorganizations may be effected. Prerequisite: Economics Ia and Ib.
Mead: Corporation Finance. 3 hours; one semester.

VI. Advertising. Methods of effective advertising. Comparison of Chinese and foreign advertising methods.
Hess: Productive Advertising. 3 hours; one semester.

VIIa and VIIb. Accountancy. Principles of debit and credit; the keeping of single and double entry books; preparation of balance sheets; loss and gain statements; closing of the ledger. The second semester is devoted to cost accounting. Open only to students of the rank of Juniors or above.
Ross: Bookkeeping and Accounting. 4 hours; two semesters.

VIIIa and VIIIb. Business English and Correspondence. A consideration of the English of advertising; writing and editing copy; proparation of periodical advertisements, booklets and form letters; business correspondence and trade cultivation; filing and office systems.
Davis and Lingham: Business English and Correspondence.
3 hours; two semesters.

CHEMISTRY

Professor C. N. Laird; Mr. Chiu Yan Tsz

THREE ROOMS, approximately 1500 square feet in area, have been assigned to the Department of Chemistry. One room, seating sixty, is used for a lecture and recitation room; another room has desks for twelve students in analytical chemistry, and the third will accommodate fifty-six students in general chemistry, working in sections of twenty-eight each. Each desk is supplied with running water and (gasoline) gas. The equipment includes some apparatus for demonstration purposes and all the apparatus and supplies needed for each student to perform the experiments in the courses in general inorganic, analytical and organic chemistry.

Ia and Ib. General Inorganic Chemistry. The work covers only the ordinary non-metallic (first semester) and metallic (second semester) elements and their compounds, but a thorough

knowledge of them is required. The quantitative laws of chemical combination and the principles of chemical equilibrium are mastered, and the habit formed of continually applying these principles to all chemical, including ionic, reactions.
Smith: General Chemistry for Colleges.
Smith: A Laboratory Outline of College Chemistry.
Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

IIa. Qualitative Analysis. A course in the theory and practice of inorganic qualitative analysis to develop habits of chemical reasoning along modern theoretical lines and correct laboratory technique. Prerequisite: Chemistry Ia and Ib. Physics Ia and Ib should either precede or accompany this course.
A. A. Noyes: Qualitativ Chemical Analysis.
Class-room 1 hour, laboratory 8 hours (5 credits); one semester.

IIb. Quantitative Analysis, Inorganic. Theory of quantitative separations with discussion of laboratory methods and chemical calculations. Typical methods of gravimetric and volumetric analysis will be used in the laboratory. Prerequisite: Chemistry I and IIa.
Blasdale: Principles of Quantitative Chemical Analysis.
Class-room 1 hour, laboratory 8 hours (5 credits); one semester.

IVa and IVb. Elementary Organic Chemistry. A broad survey of the subject, covering briefly the most important classes of compounds of both the aliphatic and aromatic series. Prerequisite: Chemistry I.
Clarke: Organic Chemistry.
W. A. Noyes: A Text-book of Organic Chemistry and Chemistry for the Laboratory.
Class-room 2 hours, laboratory 3 hours (7 credits for the year); two semesters.

VIa and VIb. Physical Chemistry. An introductory course covering the general properties of gases, liquids, solids and solutions as well as the principles determining reaction velocity and equilibrium, and the common methods used in physical-chemical measurements. Prerequisite: Mathematics V. (*Not offered in 1919-20*).
Lecture 1 hour, laboratory 3 hours (2 credits); two semesters.

VII. Agricultural Chemistry. Occurrence, preparation and properties of the chemical elements relating to agriculture. Carbohydrates. Nitrogenous and non-nitrogenos organic compounds of plants. Chemistry of crop growth, crop rotation, factors which influence the composition and feeding value of crops, general composition of grains, roots, tubers and fruits. Chemical analysis of soils and fertilizers. Prerequisite: Chemistry I and II.
Stoddard: Agricultural Chemistry.
Class-room 2 hours, laboratory 4 hours (4 credits); one semester.

CHINESE

Professor Chan Tsap Ng; Associate Professor Chan Chung Wai; Mr. Chan Tak Wan

A and B. Chinese Composition (國文). Required of all Subfreshmen. 2 hours, two semesters.

C. Chinese Classics (論孟). 2 hours; one semester.

D. Modern Ethical Literature (先儒語錄). 2 hours; one semester.

All College courses in Chinese for Freshmen and above are optional. Three groups of studies are offered: Chinese Philosophy, Chinese Literature, and Chinese Historical Research. Students may elect the course they desire to pursue, but in general will follow one group through. No course will be opened unless the number electing in the group is enough to warrant its being begun. The order in which the semester courses are given will be modified to meet the requirements of the students.

Chinese Philosophy (中國哲學)

The aim of these courses is to familiarize the student with the different types of ancient and recent philosophical and ethical concepts with a view to aiding him to a better knowledge of the rules of conduct and ideals of life.

I and II. Ancient Philosophy (古代哲學). Lectures, discussions and reports. 2 hours; 2 semester courses.

III and IV. Modern Philosophy (近代哲學). Lectures, discussions and reports. 2 hours; 2 semester courses.

Chinese Literature (中國文學)

Ia and Ib. Chinese Characters (小學). A study of the philology and linguistics of the Chinese characters, both ancient and modern. This course will prepare students to do research work in the field of Chinese antiquity and also will prove valuable to the student who intends to study the new types of Chinese literature for the layman. Lectures, discussions, practical work. 2 hours; one year course.

IIa and IIb. Chinese Prose Writings (文詞學). Lectures, discussions and reports. 2 hours; one year course.

IIIa and IIIb. Versification (詩詞學). The different types and forms of Chinese poetry, drama, etc., both ancient and modern, are critically studied. In this course the student will endeavor to make improvements on the current forms of hymns, songs, and histrionic productions for the sake of popular education. Lectures, discussions and practical work. 2 hours; one year course.

IV. History of Literature (文學史). Lectures, discussions, and reports. 2 hours; one semester.

V. Chinese Public Documents (公牘). A study of the various forms of public documents, and practice in preparing material in the most approved business and documentary styles. 2 hours; one semester.

Chinese Historical Research (中國歷史)

Ia and Ib. Archaeology (古物學). The purpose of this course is the study and the preservation of the historical objects, places and monuments of China, including ancient ceramics, paintings, bronzes, coins, gems and all branches of paleography and antiquity. This course, it is hoped, will serve as a step toward the formation of archaeological museums and societies. Lectures, discussions, reports, travelling, and making of collections. 2 hours; one year course.

II. History of Chinese Rites, Customs, Ceremonies and Etiquette (禮俗史). This is an historical and critical study of the Chinese principles and rules of of propriety and social order. Lectures, discussions and reports. 2 hours; one semester.

III. Legal and Political History of China (法制史). A general survey of the legal and political aspects of China's history and development. 2 hours; one semester.

IV. History of Chinese Immigration into Foreign Countries (華僑史). This is an historical and statistical study of the conditions of Chinese abroad. Reports will be gathered for the guidance of Chinese going to and returning from foreign lands. This course prepares the way for the establishment of an information bureau for Chinese emigrants. Lectures and reports. 2 hours; one semester.

V. Religious History of China (宗教史). A study of the religious life and thought in the history of China. 2 hours; one semester.

COMPOSITION in CHINESE

Associate Professor Kwan Yan Cho

A to VIII. Prescribed for all students in the College throughout the five years from Sub-freshman to Senior. This is not a course in Chinese classics and literature. The aim of the course is to guide and encourage the student to make use of the knowledge which he has acquired through the medium of the English language by expressing it in Chinese. This is so essential in the preparation of the increasing number of men who are looking forward to teaching in grammar and middle schools, that its importance must be emphasized. Students taking this course are required to translate English works into modern and idiomatic Chinese. Opportunity is afforded for collateral reading of books already translated by acknowledged authorities and for informal class discussions. In addition to the regular class-room work, students are encouraged to collect material in English and prepare in Chinese talks and addresses on topics of general interest to be delivered in the class-room and elsewhere, as occasions offer in connection with the extension work of the College. Students find expression for their best translated and original productions through the Canton Christian College quarterly magazine, *Ling Naam*. 2 hours; every semester.

ECONOMICS

Professor K. Duncan; Mr. Kwok Yam Tong

THE COURSES in Economics are in close correlation with those in Business Administration and Agriculture, and attention is called to courses of economic interest under those headings. The college and private libraries on the campus furnish a large amount of well-selected material for economic study. Files and current numbers of *American Economic Review, Economic Journal, Annals of the American Academy, Journal of Political Economy, Chinese Social and Political Science Review, Quarterly Publications of the American Statistical Association* and other economic periodicals are available. In the case of the publications of the American Economic Association the files are complete.

Ia and Ib. General Economics. Prerequisite for all other courses in Economics. Economic theory and a general survey of the economic world. During the second semester a brief study of the single tax, socialism in its economic aspects, money and currency, large scale production, and public finance. Special attention to problems of agricultural economics.

Duncan: Essentials of Economics.

Duncan: Exercises in Elementary Economics.

Reference Readings in Marshall, Wright and Field: Materials for the Study of Elementary Economics (for other than agricultural students), and Nourse: Agricultural Economics (for agricultural students). 4 hours; two semesters.

II. History of Economic Thought. History of economic ideas and philosophy from ancient times to the present. The effect of changing social and industrial systems on economic ideas; the economic interpretation of history; the present economic order and programs of socio-economic reform. Influence of the European War on economic thought.

Haney: History of Economic Thought. 3 hours; one semester.

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III. Conservation of Economic Resources. A survey of the natural resources and products of China of economic significance and an examination of the policies of conservation and control. General principles of conservation; economic aspects of scientific agriculture, food supply, scientific forestry, flood control, use of mineral wealth, and conservation of human resources. Syllabi, with assigned readings and reports. Open to Sophomores and above, Economics Ia and Ib not prerequisite.

Ely, Hess and Leith: Foundations of National Prosperity.

3 hours; one semester.

IV. Monopoly and Modern Combination. The theory of monopoly; the origin and development of modern capitalistic business and large scale production; labor combinations; public regulation of monopolistic control, and a critical examination of various remedies proposed.

Jenks: The Trust Problem, 4th ed.
Durand: The Trust Problem. 3 hours; one semester.

V. Public Finance and Taxation. Study of the theory and history of government revenues and expenditures; taxation with special reference to the general property, inheritance, and income taxes; customs duties; local and general taxation in China; financial administration; war finance and other problems of extraordinary finance.

Plehn: Introduction to Public Finance.
Seligman: Essays in Taxation, 8th ed. 3 hours; one semester.

VI. Money and Banking. Principles of money and currency; functions and operation of a modern bank. Monetary reform in China. Students have an opportunity for practical study and experience in banking in the College Bank. Outlines, with assigned readings.

Moulton: Money and Banking. 3 hours; one semester.

VII. Insurance. Principles and methods of insurance, its history, problems and law. Special attention to life insurance, with an elementary treatment of the fundamental mathematics, and to fire insurance. Brief survey of the scope and development of social

insurance. State insurance. Insurance statistics. Insurance in China.

Gephart: Principles of Insurance, vol. I (Life) and vol. II (Fire).

3 hours; one semester.

VIII. Statistics. Elementary principles of the statistical method; the collection, presentation and interpretation of statistical data. Special attention to the various types of indices and averages and their proper use, and to graphic methods of presenting economic and social statistics. Business statistics.

Secrist: Introduction to Statistical Methods.

Mitchell: Making and Using of Index Numbers (Bulletin 173 of U. S. Bureau of Labor Statistics, Part I).

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

EDUCATION

Professor H. B. Graybill

A and B. The Study and Teaching of Higher Primary School Subjects. Open to Freshmen and higher students for college credit, if not taking Education I or II. Before a teacher can properly impart instruction in arithmetic, geography, nature study, history, Chinese composition, elementary English, and such subjects, he must have a through grounding in these subjects himself, and in addition he must have obtained a viewpoint which will enable him to see these subjects in their proper relation to each other and to the life of the pupil. This course aims to supplement in review lessons whatever equipment the student already has along this line, and to present in a very practical form some of the most essential features of good methods in the study and teaching of each subject.

Lincoln: Everyday Pedagogy. 2 hours; two semesters.

I. Principles of Education. Open to Freshmen and higher students. This course presents child study and a consideration of the meaning of education as a basis for the understanding of educational procedure from both the psychological and the sociological point of view.

Butler: Meaning of Education.
Kirkpatrick: Child Study. 3 hours; one semester.

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II. School Administration. Open to Freshmen and higher students and to teachers. This course takes up practical problems of school management: financing, establishing, organizing, supervision, office management, records, health, standards, connections, etc. Full use will be made of the opportunities for observation, study, and experiment in the various departments of the College and in other schools in Canton.

Colgrove: The Teacher and the School. 3 hours; one semester.

III and IV. Practice Teaching. One credit may be gained by students in Education for two hours, or two credits for four hours, a week each semester for practice teaching, if done under the supervision of the instructor and of a grade which meets his approval.

V and VI. Special Methods. Prerequisite: Education I. This course in methods of study and teaching aims to develop by study, experiment, and observation the methods best suited to the needs of China. Attention will be given to the historical development of the various subjects, and the content as well as the methods will be dealt with. The subjects of Middle School grade will occupy most of the time.

Monroe: Principles of Secondary Education.

Judd: Psychology of High School Subjects.

Parker: Methods of Teaching in High Schools.

3 hours; two semesters.

Education Courses at the Summer Session. In addition to the above, other courses are offered as the demand arises. See also the announcement of the Summer Session.

ENGLISH

Professor L. D. Loshe;
Associate Professor J. C. Griggs; Miss M. H. Riggs

A and B. Sub-freshman English. Prescribed for all Sub-freshmen. The aim of this course is clear, simple and logical expression, preparing the student to use English more freely in his other courses as well as to continue the study of the language itself. Composition, with emphasis on the principles of structure in the sentence and paragraph, and reading of texts sufficiently varied to develop the student's vocabulary.

Lomer and Ashmun: The Study and Practice of Writing English.
Smith: Short Stories, Old and New (Ginn).
Guitteau: Preparing for Citizenship (Houghton Mifflin).
Lowell: Vision of Sir Launfal, edited by Davidson (Houghton Mifflin).
Irving: Sketch Book, edited by Litchfield (Ginn).
Scott: Ivanhoe, Abridged (Longmans Class-Books of English Literature), or
Shakespeare: Julius Cæsar, Hudson Edition (Ginn).

5 hours; two semesters.

C. and D. Supplementary English for Sub-freshmen. A course designed to supplement courses A and B, and prescribed for certain students on recommendation of the instructor of English A or B.

Tseu Yih-zan: Hints on English Composition.

2 hours; two semesters.

Ia and Ib. English Composition. Prescribed for all Freshmen, except those in the Agricultural Group. Study of composition and style with emphasis on the relation between clear thinking and clear writing. While the work of the course is chiefly in composition, there are regular assignments of reading intended to illustrate the principles studied as well as to give practice in reading. Rhetoric, reading themes, and conferences.

Genung and Hanson: Outlines of Composition and Rhetoric (Ginn).
Burke: Speech on Conciliation with America, edited by Lamont (Standard English Classics; Ginn).

TENNYSON: Idylls of the King, edited by Boughton (Ginn), or
ARNOLD: Sohrab and Rustum, edited by Trent and Brewster (Ginn).
WEBSTER: First Bunker Hill Oration, edited by Gaston (Ginn).
CAMPBELL and RICE: A Book of Narratives (Heath).

4 hours; two semesters.

IIa and IIb. ENGLISH COMPOSITION FOR AGRICULTURAL STUDENTS. Prescribed for Freshmen in the Agricultural Group. A simple course in composition with themes on subjects taken from the practical work and the texts of the courses in agriculture.

1 hour; two semesters.

IIIa and IIIb. READING COURSE IN MODERN ENGLISH. The aim of this course is to familiarize the student with the idiom and vocabulary of modern periodicals and to give him some idea of the scope and content of the leading weekly and monthly magazines.

2 hours; two semesters.

IVa and IVb. MATERIALS OF MODERN LITERATURE. In a very simple and elementary form this course makes an approach to the methods of comparative literature. It takes up the great common sources of material: the most important of the classical stories, the Norse stories, the Roland stories and the Arthurian stories. After studying the original outline and significance of the stories the student is shown some of the modern developments of the material. Lectures, assigned reading and papers.

3 hours; two semesters.

Va and Vb. INTRODUCTION TO ENGLISH LITERATURE. Open to students who have taken English III or English VII, or by permission of the instructor. This brief outline is intended to furnish a background for the study of special types of literature and a point of departure for the study of special periods. Lectures, assigned reading and the preparation of papers and reports.

3 hours; two semesters.

VIIa and VIIb. ENGLISH PROSE FICTION. Open to all students who have satisfied the requirements in English A and B. While giving the student practice in rapid reading this course discusses some of the problems of material and method in the short story and the novel. Reading of works of Dickens, Stevenson, and modern novelists, with lectures, discussions and papers based on the reading.

3 hours; two semesters.

IXa and IXb. MODERN PROSE AND POETRY. Open to students who have taken English III or VII, or to other students by permission of the instructor. Reading and discussion of some of the chief works of contemporary writers, especially in fiction and the drama.

3 hours; two semesters.

XIa and XIb. RHETORIC. Open to Sophomores and above who have received a grade of 85 or better in English I, or by permission of the instructor. This course in the forms and methods of writing has a two-fold aim—to develop the student's powers of self-expression and to enable him to read with understanding of the author's methods and with enjoyment of literary art. Supplementary readings.

2 hours; two semesters.

XIIIa and XIIIb. ENGLISH LITERATURE FROM 1830 TO 1890. A study of the literature of this period with special attention to the great poets of the Victorian period.

3 hours; two semesters.

XVa and XVb. JOURNALISM. Prerequisite: 15 credits in English. A brief study of the value, organization and operation of the daily, weekly and monthly press; study and practice in collecting, writing, editing, and publishing news, articles, and editorials.

2 hours; two semesters.

XIX. TEACHING OF ENGLISH. A study of the best methods of teaching English and of the best content for the English course in schools in China, with a review of phonetics, grammar, composition, reading, etc.

3 hours; one semester.

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FRENCH

Miss L. D. Loshe

Ia and Ib. Elementary French. Study of the essentials of grammar and composition, with reading of simple texts and practice in composition.

Alexander: A Practical Introduction to French.

5 hours; two semesters.

GEOLOGY

Mr. D. L. Cook

I. College Geology. An appreciation of the general principles underlying the structure and formation of the earth. Earth processes and earth history in relation to modern life and human activity; the formation of soil from different types of rock; elementary mineralogy.

Chamberlain and Salisbury: A College Text-Book of Geology.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

GERMAN

Miss C. Sz-to

Ia. Elements of German. Simple exercises and grammar. Reading of elementary stories and easy description with a view to enlarging the student's vocabulary and to increasing his ready use of the dictionary. Emphasis is placed on translation rather than conversation, the aim of the course being to furnish the student with an adequate basis for independent reading of scientific German.

Allen and Phillipson: A First German Grammar.

Bacon: Im Vaterland.

5 hours, one semester.

Ib. Scientific German. Primarily for pre-medical students. Reading in German of not less than 300 pages of simple technical and scientific matter.

Scholz: German Science Reader.

5 hours; one semester.

GOVERNMENT

Associate Professor H. C. Brownell; Mr. Kwok Yam Tong

I. Political Science. An elementary general survey of the theory of the state and the science of government.

Gettell: Introduction to Political Science.

3 hours, one semester.

II. Constitutional Government. The theory of constitutional government, with a comparative study of the constitutions of Great Britain, United States, France, Germany, Japan and China. Collateral reading and reports.

Goodnow: Principles of Constitutional Government.

3 hours; one semester.

III. International Law. General theory and content. Particular attention to the Orient. Study of China's foreign treaties, especially those concerning trade and commerce, loans and indemnities, and extra-territoriality. International law as modified by the European War.

Lawrence: The Principles of International Law.
Lawrence: Documents Illustrative of International Law.
Mayers: Treaties of China with Foreign Nations.

3 hours; one semester.

HISTORY

Associate Professor H. C. Brownell

A and B. Ancient and Mediæval History to the Protestant Revolution. Assigned readings and essays.

Robinson and Breasted: Outlines of European History, Part I (Vol. I).

3 hours; two semesters.

Ia and Ib. Modern European History from the Protestant Revolution to the Present Day. Assigned readings and essays.

Robinson and Beard: Outlines of European History, Part II (Vol. II).

3 hours; two semesters.

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IIa and IIb. THE NINETEENTH CENTURY. Presupposing both the preceding courses, this is a detailed study of particular phases of modern history—the Industrial Revolution, the American War of Independence, the expansion of America, Franchise and Social Reform in England, the Slavery Struggle in the United States, the development of German unity, Italian unity, etc. This course should enable the student to gain a correct idea of the present standing of the chief modern states and the reasons underlying. Numerous assigned readings and reports.

HAYES: The Political and Social History of Modern Europe, Vol. II.

HAZEN: Europe since 1815. 3 hours; two semesters.

IIIa and IIIb. THE EASTERN COUNTRIES IN THE LAST CENTURY. The history of Far Eastern countries other than China is important not only because of what China has gained from them but for what she may gain from them, especially the inevitable reaction from Japan. The trend of relations between the West and the East is followed and the possible advantages and dangers to both pointed out. The progress already made in Siam, India, and the Philippines is discussed to make plain the essential needs of China and to indicate safe policies of reform. Lectures, assigned readings and reports based on current periodicals as well as on such books as Williams' History of China; Boulger's History of China; Li Ung Bing's Outlines of Chinese History, etc.; McLaren's Political History of Japan in the Meiji Era; Porter's The Full Recognition of Japan; Brinkley's Japan; Griffis' The Mikado, Institution and Person; Worcester's Philippines, Past and Present, etc.

3 hours; two semesters.

IV and IVb. THE HISTORY OF REPRESENTATIVE GOVERNMENT. A study of free institution from the primary democracies of classic times (the city state) to the most developed representative systems to-day, based on source readings in Plato, Aristotle, Tacitus and the works of Machiavelli, Hobbes, Locke, Guizot, Mill, Stubbs and others. The fundamental needs of a government by the people are emphasized and the virtues and defects of the constitutions of the Great Powers, America and Japan discussed with special thought for China's problems and opportunities. Lectures and reports. 3 hours; two semesters.

Va and Vb. THE ENGLISH CONSTITUTION. Elective to Juniors and Seniors. A detailed study of the origins and development of the English Constitution with special emphasis on the changes wrought since 1689, including the radical rearrangement of constitutional balance in the last twenty years and the strain caused by war exigencies. Comparison with continental and American systems for illustrative purposes only. Seminar based on Stubbs, Taswell-langmead, Maitland, Bagehot, etc., with lectures on the last phases and the present system. 3 hours; two semesters.

LOGIC

REV. A. BAXTER

I. The aim of this course is to form and develop in the student the faculty of exact and critical thinking. It deals with the right use of words (description and definition), and with the theory of reasoning (the proposition, inference and proof). The principles of syllogistic reasoning are thoroughly studied and the student is trained in the use of inference, hypotheses, analogy, and other methods of scientific investigation and proof. Special attention paid to practical exercises throughout the course.

WELTON: Groundwork of Logic. 3 hours; two semesters.

MATHEMATICS

PROFESSOR W. E. MACDONALD

A. INTERMEDIATE ALGEBRA. Numerical and literal quadratic equations; irrational forms; theory of quadratic equations; surds; ratio; proportion; variation; logarithms; arithmetical, geometrical and harmonical progressions.

BAKER and BOURNE: Elementary Algebra. 4 hours; one semester.

B. PLANE TRIGONOMETRY.

MURRAY: Plane Trigonometry. 4 hours, one semester.

I. SOLID GEOMETRY. Solid geometry, including spherical geometry. This course presupposes plane geometry and a working knowledge of algebra through quadratic equations.

BEMAN and SMITH: Solid Geomtery. 4 hours; one semester.

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II. College Algebra. Algebraic expressions; identities; undetermined coefficients; partial fractions; synthetic division and the remainder theorem with applications; cube root; binomial theorem; irrational functions; radicals; indices; ratio; proportion; variation; progressions; graphical methods; permutations and combinations; theory of equations; the cubic and quartic.

Fine: College Algebra. 4 hours; one semester.

III and IV. Analytical Geometry. This course aims to increase the student's appreciation of the processes of mathematical thought and the accuracy of expression afforded thereby; to train him in the application of fundamental principles of the analytic method both in the plane and in space; the straight line, conic sections, quadric surfaces, with special attention to locus problems. The idea of the derivative is introduced.

Fine and Thompson: Coordinate Geometry. 4 hours; two semesters.

V and VI. Differential and Integral Calculus. Drill on the methods of the Differential and Integral Calculus with numerous applications to geometry and physics, the theoretical development being as rigorous as the powers of each class will warrant. As a first course, however, its chief aim is to develop skill in the manipulation of formulas and in the statement and solution of problems. Indispensible for any advanced study of mathematics or physics and for intelligent engineering.

Osgood: Differential and Integral Calculus. 4 hours; two semesters.

VII. Differential Equations. Prerequisite: Mathematics V and VI. This course is indispensible for students looking toward electrical engineering.

D. A. Murray: Differential Equations. 3 hours; one semester.

VIII. Solid Analytical Geometry. Prerequisite: Mathematics V and VI.

C. Smith: An Elementary Treatise on Solid Geometry. 3 hours; one semester.

MECHANICAL DRAWING

Mr. _____

Ia. The use of drawing instruments. Lettering, tracing, and blue-printing. Mechanical drawing from objects. Simple projections. Students in agriculture are required to draw a plan of some farm property showing roads, buildings, drainage, etc.

3 hours; one semester.

Ib. The descriptive geometry of projections, intersections, and developments. Plans, elevations and sections of simple structural details. 3 hours; one semester.

MUSIC

Miss H. Waterman

Credit to the extent of not more than 2 credits in one semester, nor more than 6 credits toward graduation, may be secured for music study, if under the supervision of the College and of approved grade.

PHILOSOPHY

Rev. A. Baxter

I. A rapid survey of the field of philosophy, showing the scope of philosophy and its relation to the sciences. It does not attempt to give an exhaustive presentation of any philosophical system, but rather an acquaintance with the problems which arise from the different theories in relation to modern thought. It states the presuppositions of ancient philosophy and discusses the solutions offered. It sketches the progress of modern philosophy and presents the modern view of the world with indications of the trend which philosophy is taking. Each student is required to state and defend his own theory of reality.

Rogers: Student's History of Philosophy. 3 hours; one semester.

PHYSICS

PROFESSOR C. K. EDMUNDS; MR. A. R. KNIPP; Mr. D. L. COOK

THE PHYSICS DEPARTMENT occupies two large rooms and a shop on the second floor of Martin Hall. Its demonstration and laboratory apparatus, and the shop equipment with lathes and forge, afford ample opportunity for experimentation in both elementary and advanced courses. It has a well equipped Meteorological Station and makes daily observations of atmospheric temperature and pressure, soil temperature, wind-velocity, rain-fall, evaporation and humidity. The Physics library comprises 600 volumes and includes files of the *Philosophical Magazine, Physical Review, Science Abstracts,* etc.

A and B. PROJECT PHYSICS. The chief object is to give the student an understanding of how physical principles underlie many experiences in every-day life and how some of the laws of physical science are applied in the home and the industries.

MILLIKAN and GALE: A First Course in Physics.

AHRENS, HARLEY and BURNS: Practical Physics Manual.

Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

Ia and Ib. GENERAL PHYSICS. A fairly rigorous presentation of general physics. A working knowledge of algebra, geometry and trigonometry is required and preferably a previous study of the equivalent of Physics A and B. The laboratory work aims to train the student to make accurate physical measurements and to reason clearly from the results recorded. A brief study of the precision of measurements is included and training in practical photography.

AMES: Text Book of General Physics.

AMES and BLISS: A Manual of Experiments in Physics.

Class-room 3 hours, labaratory 6 hours (6 credits); two semesters.

IIa and IIb. MATHEMATICAL PHYSICS. Lectures on the mathematical basis of Mechanics, Heat, Light and Electricity. The laboratory course is made up of experiments requiring a considerable degree of precision.

Lectures 3 hours, laboratory 6 hours (6 credits); two semesters.

PSYCHOLOGY

MR. J. N. KEYS

I. This course aims to show the student the physiological basis of thought, to teach him the elements of metal processes, and to guide him in the practical use of his faculties. Experiments and assigned readings.

PILLSBURY: Essentials of Psychology.

THORNDIKE: Elements of Psychology. 3 hours; one semester.

RELIGION

ASSOCIATE PROFESSOR A. BAXTER

A and B. SUB-FRESHMAN RELIGION. Required of all Subfreshmen. The aim of this course is to give some idea of the nature, purpose and progress of the Christian Church in the world. Special attention will be given to the work of the great Church leaders and reformers from the Apostles onward to the Reformation and the persent day, and also to the social benefits that have been conferred on the world through the agency of the Christian Church. Some account of the nature and origin of the Church in the New Testament and of its development in Apostolic Times, especially through the missionary labors of St. Paul. The Church in the Roman Empire and its great leaders. The great periods of Church History and their significance. The Church of to-day and its place in the world as an agent for the coming of the Kingdom of God.

1 hour; two semesters.

I. CHRISTIAN ETHICS. Primarily for Freshmen.

The aim is to outline the Ethics of Jesus, to compare them with other ethical systems, and to indicate their beauty, depth, and supremacy as an ideal of conduct which can be translated into practice by the help of the Spirit of God. Some account will be given of Non-Christian Ethical systems, especially as found in China, India, and Greece, and of the ethics of the Old Testament. The ethical ideas of Jesus will be indicated and discussed and the endeavor will be made to present them as an ideal of human conduct in individual, social, and international relationships.

2 hours; one semester.

II. Christian Apologetics. Open to Sophomores and above. The aim is to present Christianity so far as is possible as a reasonable faith, and to help the student towards the solution of problems that arise in the relation between Christian doctrine and practice and other branches of human knowledge. A statement and defence of the Christian doctrines of God, man and the world as against Agnosticism and the views of Materialism and Pantheism. Problems connected with revelation and inspiration, miracles, prayer, forgiveness, the future life, and man's destiny.

3 hours; one semester.

IIIa and IIIb. Comparative Religion. Open to Freshmen and above. The aim of this course is to examine as far as possible the chief religions of ancient and modern times with a view to answering the question "is a world religion possible and if so, is that world religion Christianity?" IIIa includes some discussion of the nature, origin and validity of Religion. An examination of some of the lower forms of Religion. A study of the religions of Egypt, Assyria and Babylonia, Persia, Greece and Rome. IIIb includes some account of the chief religious systems surviving in the world to-day—especially the religions of India, China and Japan—with a view to showing how the best elements of these religions are conserved, ennobled, and transcended in Christianity.

Menzies: History of Religion. 2 hours; two semesters.

IV. The Person of Jesus Christ. Prerequisite: Religion II. This final course aims at gathering together the conclusions reached in previous courses and at showing how their validity depends on our interpretation of the central fact—Jesus Christ. An endeavor will be made to reach an interpretation adequate to previous conclusions and which will justify Christ's claim to be for all time the "Light of the World."

Jesus Christ as interpreted by Himself in the gospels, especially St. John. The meaning of His incarnation and death. Jesus Christ as interpreted by the growing thought and experience of the church, and the influence He has exerted and still exerts on history. The inadequacy of interpretations which stop short of seeing in Jesus Christ the "Son of God," "Mankind's Saviour," and the "Light of the World."

2 hours; one semester.

Va and Vb. Hellenistic Greek. Primarily for pre-theological students. The grammar and simple exercises. Reading and translation of St. John's Gospel, chapters I and II.

Moulton: Introduction to New Testament Greek.
Green: Vocabulary of the New Testament.
Nestle: Greek New Testament. 3 hours; two semesters.

SOCIOLOGY

Mr. K. Duncan; Mr. J. N. Keys

I. Social Problems. A general survey of a number of problems of the family, the race and the social order. Problems of the family; population; public welfare; women and children in industry; the status of women; social pathology; crime; famine; poverty; rural and urban life; industrial ethics; Chinese emigration; colonization; etc.

Ellwood: Sociology and Modern Social Problems.
Leong and Tao: Village and Town Life in China. 3 hours; one semester.

II. Social Psychology. Analytical study of the psychological aspects of social life and the principles of suggestion-imitation. The laws of mob-mind, fashion, custom, conventionality, conflict, public opinion, leadership and social control. Exercises and assigned readings in the writings of McDougall, Le Bon, Ross, Ellwood, Tarde, Cooley, William James, and others.

Ross: Social Psychology. 3 hours; one semester.

III. General Sociology. Prerequisite: Sociology I and II, if possible. General principles of the origin, development and organization of society up to its present stage. Systematic study of the social population, forces, processes, products and principles. Field of social service. Special attention to the social order and policies of the Orient. Social amelioration. The class will undertake some simple field work. Besides the texts, the student will become familiar in the main with the leading sociological systems and theories.

Hayes: Introduction to the Study of Sociology.
Carver: Sociology and Social Progress. 4 hours; one semester.

IV. Peace and War. War and militarism in their sociological aspects. Theories of war; national defense; maintenance of peace; theories of non-resistance; international peace. The course will be conducted as a round table discussion, and a systematic series of readings and reports required. 2 hours; one semester.

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College Expenses

FEES

All are in Hongkong Currency and all except Laboratory Fees are to be paid before residence is taken up.

Tuition	*1st Sem.*	*2nd Sem.*	*Year*
Sub-freshman	$100	$60	$160
Freshman to Senior	75	50	125

Laboratory (due within 5 days after registering for course)

Agriculture, from each student in the Agricultural Group	10
Biology I and other one-semester courses	5
Biology IIa and IIb, each semester $10	20
Chemistry	20
Physics	15

Quarters	*1st Sem.*	*2nd Sem.*	*Year*
Usual Space	$25	$25	$50
Fourth Floor, Third Dormitory	10	10	20
Board	30	30	60
Laundry	4	4	8
Student Union	3	1	4

Registration Fee (Required of all applicants when first seeking entrance to the College) 1

Guarantee Deposit 10

Gown (on entrance and whenever needed) 8

Special Examinations

Entrance examinations not at a scheduled time	4
Re-examinations except the first, each subject	2

Delinquency Fee

A student who is late, either in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of $2 a day, with a maximum total of $10.

Diploma Fee

The Regents of University of the State of New York require a fee of $6 U. S. Currency for the B. A. diploma.

Marriage and Fees

It is considered that a student who is married while his name is on the school rolls is more nearly able to pay the costs of his instruetion, and hence shall pay double tuition. New students, if married, shall be liable to the same double charges, unless excused by special action.

Special Students

An additional tuition fee of $20 or $40 per semester is charged any student requiring special tutoring or care, subject to the decision of the Dean.

OTHER EXPENSES

Besides his college fees, the student will need to provide for a number of other exepenses, the amount for which will vary with his personal habits. By practising economy it is possible for a student to maintain himself at the College for very little more than the cost of his college fees, board, room-rent, laundry, clothing, and necessary travel to and from his home. Books will cost about $20, but more may be spent advantageously. The College provides a sufficient amount of good and nourishing food for all students, which is covered by the boarding fee, but some students buy "extras" which increase expenses. Clothing is an item that will vary greatly with individuals.

In addition to these items, allowance should be made for class dues, literary society dues, contributions, boat and ricksha fares, medicine, stationery and postage, and other miscellaneous incidentals. $25 would be a low allowance for these incidentals for the school year, $50 would be moderate, and $100 would be liberal. Students should provide their own furniture.

No student should be deterred from entering or continuing his study at the College because of inability to meet the expenses. Special provision is made for scholarship aid and opportunities for self-help are also available.

SUMMARY OF EXPENSES

Freshman to Senior	*1st Sem.*		*2nd Sem.*		*Year*	
	Low	*High*	*Low*	*High*	*Low*	*High*
Fees	$122	$137	$95	$110	$217	$247
Laboratory	5	25			5	25
Other Expenses					50	200
Total					$272	$472

Sub-freshman	*Low*	*High*	*Low*	*High*	*Low*	*High*
Fees	$155	$170	$105	$120	$260	$290
Laboratory	15	25			15	25
Other Expenses					50	200
Total					$325	$515

Students who matriculate after the first semester has closed, pay fees at first semester rates, and in addition gown fee and deposit.

Special Publications of the College

SPECIAL BULLETINS ISSUED BY THE COLLEGE*

Bulletin No. 5. GROFF, G. W., Agricultural Reciprocity between America and China. 40 pp. $0.20

Bulletin No. 12. GROFF, G. W., The Papaya for South China. 7 pp. $0.10

——— Chinese edition under title 木瓜. 8 pp $0.10

Bulletin No. 15. Some Educational Problems in China. 20 pp. $0.20

Bulletin No. 18. LEVINE, C. O., and CADBURY, W. W., A Study of Milk Produced in Kwangtung. 9 pp. $0.10

CANTON CHRISTIAN COLLEGE SERIES OF TEXTS

IN ENGLISH

BERGSTRESSER, C. A., Essentials of Arithmetic, Book I. Canton, 1909, College Bookstore. *Out of Print.*

GRAYBILL, H. B., Every-Day English. Book I and Book II. Shanghai, 1910, Commercial Press, Ltd. Book I, $0.40; Book II, $0.30

GRAYBILL, H. B., Teacher's Manual for Every-Day English Books I & II. Canton, 1912, Commercial Press, Ltd. $0.30

BERGSTRESSER, C. A., and WICKS, C. H., Essentials of Arithmetic, Book II. Canton, 1912, College Bookstore. *Out of Print.*

DUNCAN, K., Essentials of Economics. Shanghai, 1914, Commerical Press, Ltd. $0.80

BERGSTRESSER, C. A., Essentials of Arithmetic, revised by Y. T. Chiu and W. E. MacDonald. Canton 1917, College Bookstore. $2.50

DUNCAN, K., Exercises in Elementary Economics. Canton, 1918, College Bookstore. $1.50

IN CHINESE

FUSON, C. G., Primary Geography. 2 vol. Shanghai, 1913, Commercial Press, Ltd. $0.25 each.

WONG, K. M., Arithmetic for Higher Elementary Schools. 4 vol. Shanghai, 1913, Commercial Press. $0.25 each.

FUSON, C. G., Geography of Kwangtung. Canton, 1918, College Bookstore. $0.25

Any of the publications listed above can be secured, unless out of print, by ordering from the College Bookstore, Honglok, Canton, China.

*** A list of the general publications, catalogues, etc., descriptive of the Canton Christian College is give elsewhere in this catalogue, on page 14.**

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COLLEGIATE MISSIONS
in the
CANTON CHRISTIAN COLLEGE

The Pennsylvania State College Mission to China

GEORGE WEIDMAN GROFF, M.S. (Pennsylvania State)
Horticulture 1907

The Foreign Work of the Christian Association of the University of Pennsylvania

WILLIAM W. CADBURY, M.A. (Haverford); M.D. (Pennsylvania)
Pathology 1909

The Teachers College of Columbia University Foundation for a Professorship of Education in China

H. B. GRAYBILL, B.A. (Washington and Lee), M.A. and Diploma (Teachers College, Columbia)
Education 1914

The Foreign Work of the Christian Association of Vassar College

Miss CLARA SZ-TO, M.A. (California)
Dean of Women 1915

The Foreign Work of the Christian Association of the University of Pittsburgh

J. FRANKLIN KARCHER, B.S. (Pittsburgh)
Biology 1915

The Foreign Work of the Williams College Christian Association

W. RUSSELL AUGUR, B.A. (Williams)
Mathematics 1916

The Kansas State Agricultural College Mission to China

CARL OSCAR LEVINE, B.S. (Kansas State)
Animal Husbandry 1916

CO-OPERATING
with the
CANTON CHRISTIAN COLLEGE

The London Missionary Society

Supporting Rev. ALEXANDER BAXTER 1915

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ACADEMIC CALENDAR

1919-20

SUMMER SESSION

		1919	
Registration Day, 8:00 a.m.	Fri.	Aug.	8
Summer Session opens	Sat.	Aug.	9
Summer Session closes	Mon.	Sept.	8

FIRST SEMESTER

Registration for the Regular Session, 8:00 a.m.	Mon.	Sept.	8
Entrance Examinations for Regular Session, 8:00 a.m.	Mon.	Sept.	8
Re-examinations, 8:00 a.m.	Thurs.	Sept.	11
Fees paid at the Bank	Fri.	Sept.	12
Semester opens 7:00 p.m.	Fri.	Sept.	12
Holiday: Independence Day	Fri.	Oct.	10
Holiday: Christmas Day	Thurs.	Dec.	25
		1920	
Holiday: New Year's Day	Thurs.	Jan.	1
Semester Reviews and Examinations begin	Thurs.	Jan.	22
Semester closes 1:00 p.m.	Fri.	Feb.	3

SECOND SEMESTER

Registration and Entrance Examinations, 8:00 a.m.	Fri.	Feb.	13
Re-examinations, 8:00 a.m.	Sat.	Feb.	14
Semester opens 6:00 p.m.	Mon.	Feb.	16
Holiday: Class and Founders Day	Mon.	June	7
Semester Reviews and Examinations begin	Tues.	June	15
Alumni Day	Thurs.	June	24
Commencement Exercises, 11:00 a.m.	Fri.	June	25

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Canton Christian College

Canton, China

College of Arts and Sciences

BULLETIN 26

CATALOGUE

1920-21



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TRUSTEES

of the

CANTON CHRISTIAN COLLEGE

HERBERT PARSONS, President

FRANCIS S. PHRANER, First Vice-Pres.
CHARLES H. PARKHURST, Second Vice-Pres.
W. HENRY GRANT, Secretary & Treasurer
WILLIAM W. COMFORT
F. H. HAWKINS
WARREN POWERS LAIRD
LEBBEUS B. MILLER
FREDERICK OSBORN
MA YING PIU
DAVID EUGENE SMITH
CHARLES A. STODDARD

THE PRESIDENT OF THE COLLEGE, *ex officio*

ADVISORS

Harlan P. Beach, New Haven
J. Ackerman Coles, New York
Chas. R. Erdman, Princeton
W. H. P. Faunce, Providence
Edwin J. Gillies, New York
Frank J. Goodnow, Baltimore
Lim Boon Keng, Singapore
F. M. McMurry, New York
T. W. Pearce, Hongkong
Amos P. Wilder, New Haven

The Executive Secretaries of Mission Boards having work in China are *ex officio* Advisors to the College

American Office

156 Fifth Avenue, New York
W. HENRY GRANT, Secretary and Treasurer
MAHLON H. DAY, Home Secretary
MISS KATHARINE C. GRIGGS, Assistant Secretary

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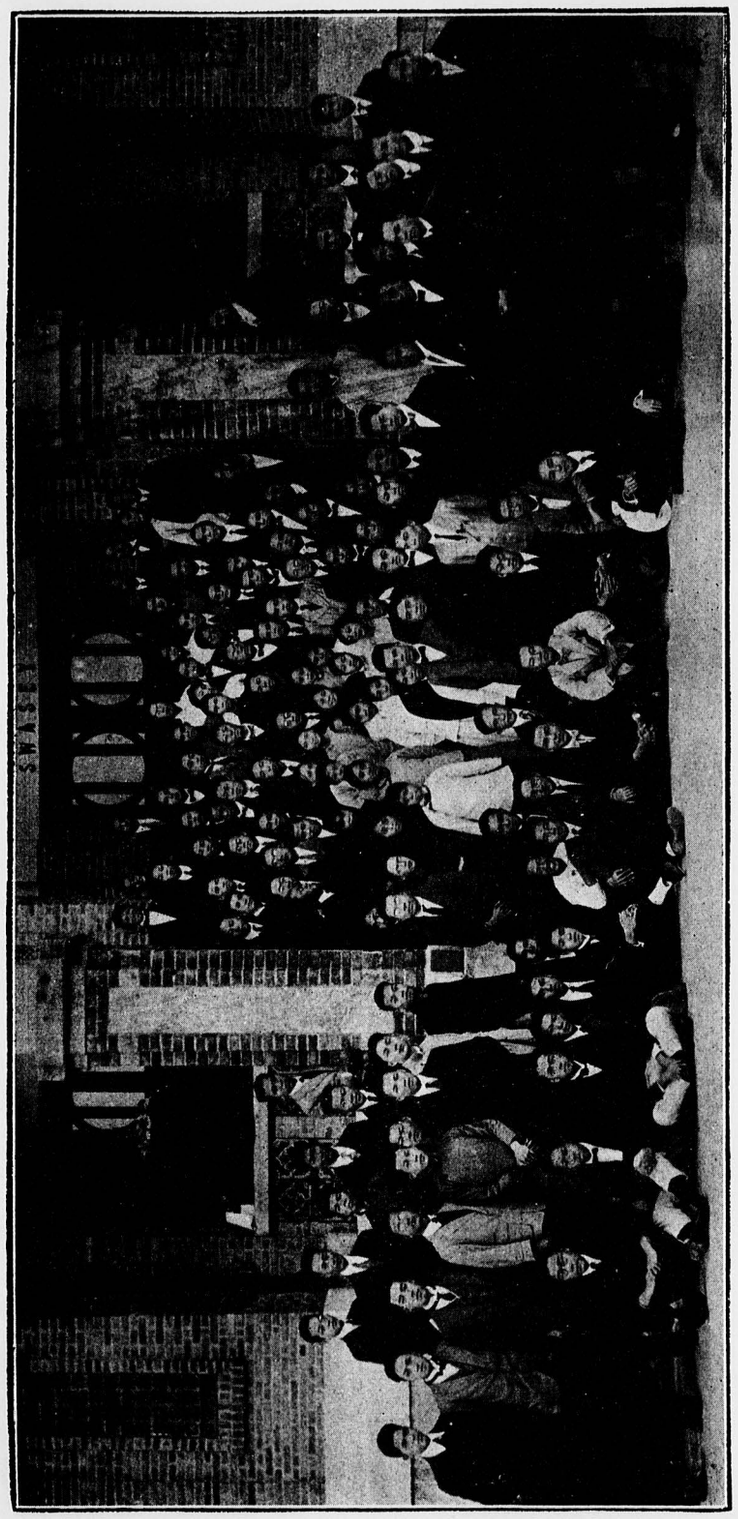

College Student Body 1919-1920

Canton Christian College

Bulletin No. 26

CATALOGUE

of

The College of Arts and Sciences

Academic Year 1920-21

CANTON, CHINA

April, 1920

Printed by the College Press

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College of Arts and Sciences

Faculty

1920-1921

文士 CHARLES KEYSER EDMUNDS, B.A., Ph.D., *President*; *Professor of Physics, and Director of Physical Laboratory.*

B.A., Johns Hopkins University, 1897, Fellow in Physics, 1902, and Ph.D., 1903; Acting Professor of Physics, University of Utah, 1898-99; Magnetic Observer, U. S. Coast and Geodetic Survey, 1900; Instructor in Physics, Central High School and Columbian University, Washington, D.C., 1900-01; General Secretary, Christian Association, Johns Hopkins University, 1901-02; Professor of Physics, Canton Christian College, 1903- ; Vice-President, 1906; President, 1907- ; Member, American Physical Society; Associate, American Institute of Electrical Engineers; Member, American Association for the Advancement of Science; Observer in Charge, Magnetic Survey of China, Carnegie Institution of Washington, 1905- .

鍾榮光 CHUNG WING KWONG, Chinese Second Degree, *Vice-President for Chinese Affairs.*

Head of Chinese Department, 1900-08; Chinese Dean, 1909-16; Commissioner of Education for Kwangtung Province, 1911-13; Study and travel in America, 1913-16; Vice-President for Chinese Affairs, 1917- .

香雅各 JAMES MCCLURE HENRY, B.A., B.D., *Executive Secretary.*

B.A., University of Wooster, 1901; Instructor in Biology, Alma College, 1901-02; Instructor in Mills Institute, Honolulu, 1902-04, B. D., Union Theological Seminary, 1907; Pastor, Peck Memorial Chapel, Washington, D. C., 1908-09; Instructor, Pui Ying Middle School, 1909-1914; Professor, Union Theological College, Canton, 1914-19; Assistant in Systematic Theology, Union Theological Seminary, New York, 1916-17; Executive Secretary, Canton Christian College, 1919- .

彭美賽 OWEN E. POMEROY, B.A., *Bursar and Superintendent of Buildings and Grounds; Lecturer in Business.*

B.A., Harvard University, 1905; Instructor, Canton Christian College, 1905-08; Complaint Clerk, James McCreery & Co., New York, 1908-09; Merchandise Manager, H. Batterman Co., New York, 1910-13; Bursar, Canton Christian College 1914- .

鄧勤 KENNETH DUNCAN, B.A., M.A., *Dean of the College of Arts and Sciences; Professor of Economics.*

B. A., Wabash College, 1910; M. A., University of Wisconsin, 1915; Master, The College School, Kenilworth, Ills., 1910-11; Instructor, Canton Christian College, 1911-14; Special Examiner, Insurance Commission, State of Wisconsin, 1914; Associate Professor of Economics, Canton Christian College, 1915-18; Professor, 1918- ; Dean, College of Arts and Sciences, 1917- ; Fellow of the Royal Economic Society (London), 1915; Member, American Economic Association; American Sociological Society; American Statistical Association.

葛理佩 HENRY BLAIR GRAYBILL, B.A., M.A., *Professor of Education; Principal of the Secondary School.*

B. A., Washington and Lee University, 1902; M.A., Columbia University, and Diploma, Teachers College, 1907; Teacher of English, Fishburne Military Academy, 1902-03; Instructor, Canton Christian College, 1903-06; Principal of the Middle School, 1907- ; Acting Dean, College of Arts and Sciences, 1915-16; Professor of English, 1915-16, of Education, 1916- .

馮世安 CHESTER GARFIELD FUSON, B.A., F.R.G.S., *Lecturer on Teacher Training.*

Graduate, Kansas State Normal School, 1903; B.A., College of Emporia, 1905; Instructor, Canton Christian College, 1905-09; Supervisor of Elementary Schools and Professor of Geography, 1910-16; Lecturer on Teacher Training, 1917- ; Assistant Magnetic Observer, Expedition through Central Asia, Carnegie Institution of Washington, 1909; Fellow of the Royal Geographical Society (London), 1910; Executive Secretary of Board of Primary Education, Kwangtung Christian Education Association (Member, American Presbyterian Mission), 1917- .

梁敬敦 CLINTON NEVIUS LAIRD, B. A., M. A., *Professor of Chemistry.*

B. A., University of Pennsylvania, 1903; M. A., 1905; Instructor, Canton Christian College, 1905-09; Bursar, 1907-14; Professor of Chemistry, 1910- ; Member, American Chemical Society; American Association for the Advancement of Science; American Electro-Chemical Society; Franklin Institute; Society of Chemical Industry.

高登甫 GEORGE WEIDMAN GROFF, B.S., M. S., *Professor of Horticulture and Director of Agricultural Work.*

B. S., Pennsylvania State College, 1907, M. S., 1918; Instructor, Canton Christian College, 1907-10; Professor of Horticulture and Director of Agricultural Work, 1912- ; Collaborator of United States Department of Agriculture, Bureau of Plant Industry, 1915-17; Field Assistant, 1917- ; Member, American Genetic Association.

陳輯五 CHAN TSAP NG, Chinese First Degree, *Senior Professor of Chinese.*

FIRST DEGREE, Chinese Government Examinations, 1902; Instructor in Kwangtung schools, 1902-07; Instructor, Canton Christian College, 1908-13; Acting Chinese Dean, 1913-16; Associate Professor of Chinese, 1913-17; Senior Professor, 1918- .

麥丹路 WILFRID EWART MACDONALD, B.A., M.A., *Professor of Mathematics.*

B. A., University of Tennessee, 1901; M. A., Harvard University, 1907; Licentiate in Mathematics, University of Tennessee, 1900; Instructor in Mathematics, Massachusetts Institute of Technology, 1903-06; Instructor in Mathematics, Harvard University, 1907-10; Professor of Mathematics, Canton Christian College, 1910-16, 1917- ; Instructor in Mathematics, University of Pittsburgh, 1916-17.

嘉惠霖 WILLIAM WARDER CADBURY, B. A., M. A., M. D., *College Physician; Internist to Canton Hospital.*

B. A., Haverford College, 1898; M.A., 1899; M.D., University of Pennsylvania, 1902; Demonstrator in Pharmaco-Dynamics and Associate Demonstrator in Pathology, University of Pennsylvania, 1906-07; Pathologist to St. Mary's Hospital, Philadelphia, 1906-07; Physician to Starr Centre Dispensary, Philadelphia, 1906-08; Examining Physician to Children's Bureau, Philadelphia, 1907-08; Visiting Physician, Free Hospital for Poor Consumptives, White Haven, Pa., 1908; Visiting Physician to the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis, 1906-08, Curator and Librarian, 1907, and Pathologist, 1908; Instructor in Materia Medica and Therapeutics, University Medical School, Canton, 1910-14; Director and Chief Surgeon and Physician, Kung Yee Hospital, Canton, 1913-14; Fellow, College of Physicians, Philadelphia; Editor, China Medical Journal (Chinese), 1912-14; Lecturer, Canton Christian College, 1914; Assistant Resident Physician, Peter Bent Brigham Hospital, 1915-16; Instructor of Clinical Medicine, Hackett Medical College for Women, 1914- ; Internist to Canton Hospital, 1914- ; College Physician, Canton Christian College, 1917- .

考活 CHARLES WALTER HOWARD, B. A., M. S., *Professor of Biology; Curator of the Museum and Herbarium.*

B. A., Cornell University, 1904; M.S., University of Minnesota, 1913; Assistant Entomologist, Transvaal Department of Agriculture, 1905-06; Entomologist, 1906-08; Entomologist to the Pan-South African Trypanosomiasis Commission, 1906-08; Entomologist, Department of Agriculture of Portuguese East Africa, 1908-11; Special Assistant, Rockefeller Insitute for Medical Research, 1911; Instructor in Entomology, Minnesota Agricultural College, 1912-13; Assistant Professor of Entomology and Parasitology, 1913-17; Associate Professor, 1917; Professor of Biology, Canton Christian College, 1917- ; Curator of Museum and Herbarium, 1918- ; Fellow of London Entomological Society, 1907; Fellow, American Association for the Advancement of Science, 1915; Member, American Association of Economic Entomologists; Biological Society of Washington; Entomological Society of America.

盧姑娘 LILLIE DEMING LOSHE, B.A., Ph.D., *Professor of English.*

B. A., Bryn Mawr College, 1899; Ph.D., Columbia University, 1905; Instructor, Bryn Mawr College, 1906-09; Instructor, Canton Christian College, 1915-16; Professor of English, 1918- .

鮑令留 HENRY CHASE BROWNELL, B.A., M.A., *Professor of History.*

B.A., University of Vermont, 1908; Rhodes Scholar, Oxford University, 1910-13; B.A., 1912; Saltonstall Scholar, Harvard University Graduate School, 1918-19; M.A., 1919; Assistant in History, Harvard College and Radcliffe College, 1918-19; Instructor, Canton Christian College, 1908-10; Associate Professor of History, 1913-19; Professor, 1919- ; Member, American Historical Association.

白士德 ALEXANDER BAXTER, REV., *Professor of Religion.*

Graduate, Hackney Theological College, University of London, 1907; Ordained (Congregational Church) and appointed to Canton, 1907; Missionary of the London Missionary Society in Canton and vicinity, 1907-15; appointed London Missionary Society's representative on Faculty of Canton Christian College as Associate Professor, 1916-19; Professor, 1919- .

陳仲偉 CHAN CHUNG WAI, Chinese First Degree, *Associate Professor of Chinese Literature.*

FIRST DEGREE, Chinese Government Examinations, 1899; Student in Japan, 1901; Instructor in Kwangtung schools, 1906-12; Editor-in-chief, "Man Shaan Daily," Canton, 1912-13; Instructor, Canton Christian College, 1913-18, Associate Professor of Chinese Literature, 1918- .

格禮 JOHN CORNELIUS GRIGGS, B.A., PH.D., *Associate Professor of English.*

B.A., Yale University, 1889, Ph.D., Leipsic, 1893; Professor, History of Music, Metropolitan College of Music, 1893-1898; Lecturer, Brooklyn Institute, 1904-1910; Teacher of Singing in New York City and at Vassar College, 1897-1918; Associate Professor of English, Canton Christian College, 1919- .

聶士 ARTHUR RUSSELL KNIPP, B. A., B.S., *Associate Professor of Physics; Resident Engineer.*

B.A., Johns Hopkins University, 1907; B.S., Massachusetts Institute of Technology, 1909; Instructor, Canton Christian College, 1909-15, 1917-19; Resident Engineer, 1917- ; Miscellaneous engineering and teaching experience in U. S. A., 1915-17; Associate Professor, 1919- .

羅飛雲 CARL OSCAR LEVINE, B.S., M.S., *Associate Professor of Animal Husbandry.*

B.S. in Agriculture, Kansas State Agricultural College, 1914; M. S., Iowa State College, 1920; Chairman, Marshall County (Kansas) Farm Bureau, 1915-16; Instructor, Canton Christian College, 1916-19; Curator of Herbarium, 1915-18; Acting Director, Agricultural Department, 1917-18; Associate Professor, 1919- ; Dairy Research Fellow, Iowa State College, 1919-20.

特嘉 JESSIE DOUGLASS, B.A., *Librarian.*

B.A., Radcliffe College, 1901; Head cataloguer, Brown University Library, 1903-1907; Special classifier, General Theological Seminary, New York, 1908-09; Private Librarian to Hon. N. W. Aldrich, 1910-1911; Librarian, The Farmers' Loan and Trust Company, New York, 1917-18; Librarian, Canton Christian College, 1919- .

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趙恩賜 CHIU YAN TSZ, B.S., M.A., *Instructor in Chemistry.*

B.S., University of California, 1913; M.A., Columbia University, 1915; Associate General Secretary, Chinese Student Christian Association of North America, 1913-14; Instructor, Canton Christian College, 1915- ; Member, American Chemical Society.

譚錫鴻 TAAM SIK HUNG, B.S., *Instructor in Animal Husbandry.*

Graduate, Canton Christian College, Middle School, 1911; B.S. in Agriculture, Kansas State Agricultural College, 1916; Instructor, Canton Christian College 1916- .

陳德芸 CHAN TAK WAN, Chinese First Degree, *Instructor in Chinese and History; Assistant Librarian.*

FIRST DEGREE, Chinese Government Examinations, 1898; Instructor in Kwangtung, Hongkong and Macao schools, 1900-11; Managing Editor, "Man Shaan Daily," 1912-13; Instructor, Canton Christian College, 1915- ; Assistant Librarian, 1919- .

曲大衛 DAVID LIVINGSTONE COOK, B.S., *Instructor in Chemistry and Physics.*

B.A., Willamette University, 1916; Principal of Carey (Idaho) Schools, 1912-13; Principal, Metolius (Oreg.) High School, 1913-14; Assistant in Physics, Willamette University, 1915-16; Principal, Newberg (Oreg.) High School, 1916-17; Instructor, Canton Christian College, 1917- ; Member, American Association for the Advancement of Science.

古察 JAMES FRANKLIN KARCHER, B.S., *Instructor in Biology.*

B.S., University of Pittsburgh, 1917; Assistant Instructor in Biology, University of Pittsburgh, 1917-18; Instructor, Canton Christian College, 1918- .

和愛民 HELENA WATERMAN, *Instructor in Piano.*

Student of Piano and Harmony, Chicago, Ills., 1895-1907, under Mr. Emil Liebling, Dr. Louis Falk, Fredrick Grant Gleason, Miss Maude Peck, Mr. Anthony Stankowitz, and others; Teacher of Piano in Chicago, 1897-1911; Teacher of Piano, Northland College, 1911-13; Missionary of the South China Boat Mission, Canton, 1916-19; Instructor in Piano, Canton Christian College, 1918- .

基濟 JAMES NOEL KEYS, B.A., *Instructor in Psychology and Education.*

B.A., College of Emporia, 1916; Rhodes Scholar, Oxford University, 1913-14, 1916-17; B.A., 1918; Acting Principal, Ransom (Kans.) High School, 1914-15; Secretary with British Army Y.M.C.A. in German East Africa, 1917-18; Instructor, Canton Christian College, 1919- .

方孝常 WALTER LEON FUNKHOUSER, B.S., *Instructor in Agriculture.*

B.S. in Agriculture, Pennsylvania State College, 1920; Instructor, Canton Christian College, 1919- .

哥惠貽 HARRY L. CALDWELL, *Instructor in German.*

Student at Bowdoin College and University of Virginia, 1915-19; Instructor, Canton Christian College, 1919- .

德古黎 FLOYD ALONZO MCCLURE, B.A., B.Sc., *Instructor in Plant Husbandry.*

B.A., Ohio State University, 1918; B.Sc., 1919; Instructor in Plant Husbandry Canton Christian College, 1919- .

司徒月蘭 NETTIE SZ-TO, B.A., M.A., *Dean of Women.*

B.A., 1917, University of California; M.A., 1918; Dean of Women, Canton Christian College, 1919- .

Location of the College



THE CANTON CHRISTIAN COLLEGE is situated on the north shore of the island of Honam, two and a half miles east of the center of Canton City, the metropolis of Kwangtung Province, which is but ninety miles from the great port of Hongkong. The College property lies along the Pearl River, nearly opposite the Tungshan suburb of Canton.

The College has a campus of a hundred and fifty acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from 40 to 70 feet above the river, which affords beautiful views in all directions. There are thirty-one permanent buildings of brick and reinforced concrete, with four more approaching completion, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office, an agency under the Canton postal administration, on its campus. The postal address of the College is Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day.

History of the College

THE HISTORY of the Canton Christian College on its present site dates from 1904.

Its rapid expansion and success during this time owes much, however, to the bold aims and persistent efforts of a small group of men during the twenty years previous. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his Board for a Christian College in Canton, and the next year one of his colleagues, Rev. A. P. Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to use English as the medium for teaching Western subjects, and to have as broad a purpose as the Syrian Protestant College at Beirut. Though five of the

seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools, and for contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moroever, needed leaders of Christian faith and ideals in every sphere of life.

Dr. Happer had received a petition from no less than four hundred Chinese, including the most prominent officials, scholars, gentry and merchants of Canton, requesting that a high grade school be started under joint American and Chinese auspices; and in 1898 President Wisner received a petition signed by fifty four pastors, licentiates, teachers and elders of all denominations in and near Canton urging that the College be maintained in Canton to serve the church as a whole.

Mr. Henry Martin, Dr. Happer himself, and others formed the initial fund, and the school was incorporated under the laws of the state of New York in 1893. For a time the Trustees owned the property and carried on the school of the Presbyterian Mission, Fati, but in 1898 they resold this property to the Mission, and the next year started a separate school with Rev. O. F. Wisner as president. This was moved to Macao during the Boxer disturbances and remained there four years while the small rice fields, bamboo groves, ponds and innumerable grave plots near Canton, on which the College could be built, were gradually being acquired.

A part of the original fund was invested in a large three-story classroom building, ant-proof and fire-proof from cellar to roof, the first of its kind in China. For four years more the College waited for its second permanent building. Then in 1909 came a dormitory from Chinese friends who had proved to themselves the worth of the school, and this was rapidly followed by three more dormitories, until the sums specially contributed by Chinese toward the upbuilding of the institution amounted to hundreds of thousands of dollars.

About 1909 American friends began giving residences for the staff, a water system, etc., and construction has gone forward without interruption, even by the European War. There are now twelve houses on the hill, and above them all, Grant Hall a splendid administration building provided by Mrs. J. S. Kennedy in 1915. That year

saw completed, in another commanding position and also of special architectural interest, an auditorium and Christian Association building, the gift of Mr. Ambrose Swasey.

More recently the college has received a notable addition to its buildings in the infirmary donated by its first Chinese Trustee, Mr. Ma Ying Piu. The generosity of these and many other liberal givers is specially remembered each year on Founders Day, an occasion when it is possible, too, for the whole College community to express its gratitude to the one who has had a larger share than any other in making the present institution, Mr. W. Henry Grant, for years the untiring Secretary of the Trustees.

The fifteenth anniversary of the establishing of the college on its present site was celebrated by a Pageant on November 29, 1919. More than four thousand guests were entertained and given every facility for seeing the material growth and future prospects of various departments. An important feature marking this anniversary, is a large dormitory, nearly finished, for the the exclusive use of the College of Arts and Sciences.

More important however than grounds and physical equipment to any institution are those less tangible but no less real assets of purpose, ideals, courage, wisdom and organization. The declaration of the College was as follows: "The purpose of the Trustees of Canton Christian College is to establish in Canton and adjacent territory in China, an institution of learning of the highest standards of educational efficiency, under Christian influences". In striving toward this end many problems new and peculiar are met, apart from such as accompany ordinary educational work That progress in these lines should be commensurate with growth in buildings and organization has been possible only through the exercise of great wisdom by both the authorities in New York and the workers in the field. The plant is used to capacity, and so far as those directly interested in the work may judge, the measure of educational result in the various schools is fairly indexed by the physical growth of the institution.

The Elementary School, started in a near-by village as a Student Christian Association enterprise, has been transferred to the campus and become a regular model department, with five attractive cottages built with gifts from Chinese, each having dormitory and classroom space for thirty children. A central hall, the gift of Mr.

Tan Kah Kee of Singapore, provides an assembly room and a demonstration classroom, as well as a central kitchen for the group of cottages.

In the interest of establishing high standards all along the line, and as a foundation for its own collegiate work, the Canton Christian College felt from the first the necessity of maintaining a strong secondary school. Indeed thus only, through a Middle School, did the college department become a possibility. And now, even with encouraging numbers of college applicants coming from the mission schools and elsewhere, the adequate development of the College of Arts and Sciences must for many years still depend largely upon the feeding capacity of its own Middle School. In addition, however, to preparing students for college, the Middle School aims to give an all-round training, and to meet the needs of those who must go out into active life with outfurther study.

While the activities of the Christian Association have been steadily expanding and several dependent village schools opened, the increasing number of those who have joined the Christian church while students has been a source of great encouragement.

In athletics the students have won an enviable prestige among Canton and Hongkong schools, besides excavating with their own hands a large swimming pool near the river, an unfailing source of physical benefit as well as real enjoyment.

The London Missionary Society in 1915 set apart one of its workers to become the professor of religion in the College. This is the most striking though not the only way in which the missions have sought to cooperate and it will be followed, it is to be hoped, by similar steps on the part of others.

In 1907 an agriculturalist joined the staff and the College garden, begun at that time, has developed into the Agricultural Work of the College of Arts and Sciences with a most interesting and growing experimental field. For this phase of the work, groups of interested people in Pennsylvania State College and Kansas State Agricultural College have assumed part responsibility. Their representatives are carrying on a work which commends itself in a peculiar way to both people and government in Kwangtung.

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So far more than a hundred students have gone from the Canton Christian College to American universities. The aim, however, is to prepare students at Canton to give as effective service to their country as if they had studied abroad.

In 1916 changes were introduced providing for a College proper, with a student life distinct from that of the Middle School, so that the nucleus of college students which had existed for many years, then became a true college community. This phase of the work of the Canton Christian College is being emphasized so as to meet the pressing need in South China for men of the highest training to become the teachers and leaders of their people.

A great step forward in the unification and strengthening of education in the province was taken in January 1920 by the Canton Missionary Conference and the Kwangtung Christian Educational Association in projecting a system of University Colleges. In the Program of Advance then adopted the following recognition and recommendation were made: "Article 14. The College of Arts and Sciences of the Canton Christian College shall be the College of Arts and Sciences of the system. The Schools of Education and Agriculture should be developed on the basis of the work already under way in these departments of the Canton Christian College, which should also further develop its courses in Commerce (Business Administration) and introduce courses in Journalism. In order to enable the Canton Christian College the more adequately to meet the expanding needs of the Program of Advance, the various missions are urged to contribute to the Canton Christian College men specially qualified for work in its existing or proposed schools of Collegiate grade."

The College Library

THE COLLEGE LIBRARY, now in Grant Hall, has two distinct sections,—one in Chinese, and one in foreign languages, chiefly English, and each consisting of about 10,000 books. Several departments are also equipped with books, loaned from the main collection.

The library aims to serve the needs of students in the various college courses. Besides the material in the library itself, faculty members customarily place their private libraries at the service of

students, so that students have access to not less than 15,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, the social sciences and education, are unusually well-selected and valuable.

Over one hundred periodicals, weeklies and monthlies, general and technical, are kept on file, the more valuable ones being bound, and used for departmental research work.

Daily newspapers from Hongkong, Peking, Shanghai, Tokyo, and Canton are taken. THE CANTON TIMES and the weekly edition of THE NORTH CHINA HERALD are bound for permanent shelving.

The foreign library is classified according to the Dewey decimal system, with the exception of the books on China, for which there is a special classification. As far as available, Library of Congress cards are used, and further the library subscribes to all cards issued relating to China, whether the books represented by the cards are in the College Library or not. This bibliography of China is kept in a separate file and, containing both author and title cards, affords an index to a large part of the existing foreign literature on China.

The library is a repository for publications of the Carnegie Institution of Washington, the Carnegie Endowment for International Peace, the United States National Museum, many departments of the United States Government and several administrations of the Chinese Republic, as well as for publications of other governments.

The Library is open both day and evening. Students have direct access to the shelves.

The College Museum

THE COLLEGE MUSEUM, located in Martin Hall, has a selection of articles and specimens of general and scientific interest. In the collection are over a hundred stuffed birds, 250 bird skins, about 500 specimens of woods, about a thousand coins, including many ancient Chinese coins, a number of fossil and mineral specimens, collections of local butterflies, moths, insects and reptiles, several industrial exhibits, and miscellaneous articles of archeological, scientific and popular interest. The museum is equipped with proper cases for the preservation and display of its specimens.

The College Herbarium

THE BUREAU OF SCIENCE in the Philippines and the Department of Agriculture of the United States are liberally cooperating with the college in the establishment of an herbarium in charge of a member of the biology department in conjunction with the agricultural department. The herbarium has over 4,000 specimens of plants representing 1,200 species collected in Kwangtung province.

Collections from the Philippines and other lands are also found in the herbarium and valuable exchange material with the United States and European countries is being acquired. The local survey is being extended into the interior regions of South China. Students and friends of the college are urged to cooperate in the collection of specimens so as to get as soon as possible an adequate knowledge of the plants of this region.

Through cooperation with Professor Merrill, chief of the Philippine Bureau of Science, and Professor K. K. Tsoong (鍾覲光) of Peking Government University, there is in preparation an index in Chinese of the plants of South China.

Publications

THE COLLEGE has issued a few *text-books* in English and in Chinese and issues *special bulletins* upon scientific subjects. A list of these is given elsewhere in this catalogue.

嶺南 THE CANTON CHRISTIAN COLLEGE MAGAZINE, or LING NAAM MAGAZINE, a bulletin of information on college matters, is published quarterly in Chinese and is mailed to subscribers for $0.60 per year.

南風 NAAM FUNG, also in Chinese, is a publication of a literary nature carried on by the students. Its subscription price is $1.00 per year.

THE STUDENT CHRISTIAN ASSOCIATION issues a weekly news sheet (嶺南青年報) in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is $0.60 per year.

The following *bulletins* and *leaflets* are issued to give information about the school, and may be obtained by writing to the head

of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

NAME	CHARACTER
Calendar	Chinese leaflet on dates, fees, entrance, etc.
Catalogue of College of Arts and Sciences	English bulletin on courses, regulations, etc.
Middle School Catalogue	Chinese bulletin on courses, regulations, etc.
Elementary School	Chinese leaflet on courses, fees, etc.
Summer Session	Chinese leaflet on courses, fees, etc.
"Taai Koon" (大觀)	Chinese bulletin, illustrated, for contributors.

College Organizations

COLLEGE STUDENT UNION

The College Student Union is the official organization of the entire College student body. In enjoys liberal powers of self-government and control of matters of general student interest. Its constitution provides for an executive committee, and special committees responsible for discipline, athletics, boarding and social matters. It elects its officers and committee-men each semester.

STUDENT CHRISTIAN ASSOCIATION

The Student Christian Association provides students with facilities for voluntary religious activities and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well equipped center for such purposes. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night schools for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall.

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Student Council.

The Student Council is composed of the following members: the President of the Student Christian Association, the President of the College Student Union, the Middle School Student Representative, and the President of the Canton Christian College or his appointee. Its function is to provide efficient means of conducting any affairs that concern the students of more than one school. It may, when necessary, call meetings of the students through the proper representatives.

Arts and Science Club

The Arts and Science Club is an organization of the Faculty and advanced students of the College which has the object of stimulating its members to keep abreast of modern scientific ideas and of encouraging reports on original investigations.

Membership may include any of the English-speaking Faculty of the entire College. All other English-speaking persons on the campus, Freshmen, Sophomores, Juniors and Seniors are eligible for associate membership. There are no dues.

Regular meetings are held once a month and special meetings are called from time to time to hear distinguished visitors.

College Literary Society

The students maintain the College Literary Societv, membership in which includes all college students of Freshman grade or above and such faculty members as care to join. Meetings are held every week for declamation, impromptu speaking and translating, and other forms of public address. Programs are rendered in English, Mandarin, and Cantonese. The society seeks to improve its members in public speaking, to familiarize them with parliamentary procedure, and in general to encourage literary activity.

Agricultural Society

The purpose of the Agricultural Society is to develop interest in the agricultural work of the College, and to promote agricultural education, investigation and extension in South China. Membership is active, associate, or honorary. The society meets on the first Monday of each month during the academic year.

College Band

A band of twenty-five pieces has been organized under the leadership of a member of the American staff. It plays for the middle school cadets at drill and also at many other functions.

College Bookstore

The College Bookstore, located in Grant Hall, maintains a stock of text-books and other school supplies required by students. These are sold practically at cost.

College Bank

The College Bank receives current and time deposits, and furnishes local banking facilities.

College Press

The College Press serves the College and community for job and book printing, both in English and Chinese. Most of the English bulletins of the College, including this catalogue, are printed by the College Press.

Organization of the Schools

THE CANTON CHRISTIAN COLLEGE comprises three grades of schools: The Elementary school (7 years), the Middle School (4 years, including the Sub-freshman year), and the College of Arts and Sciences (4 years, excluding the Sub-freshman year).

The Elementary School housed in a series of six buildings of its own, and forming a complete and separate administrative unit, consists of a lower primary department of four years for boys and girls, and a higher primary department of three years for boys only. Covering the age of childhood from about eight to fifteen, it aims to provide an atmosphere of both home and school by giving each class and its two teachers a cottage as a family center for its life and study.

The Middle or Secondary School, corresponding to the high school or college preparatory in the United States, is a middle school

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for boys only and meets the special problems of the formative years beyond thirteen or fourteen.

For administrative purposes the fourth middle school year is temporarily included under the College of Arts and Sciences as a Sub-freshman year. At present there are, therefore, only three years in the Middle School administration. Because of the close connection between the two in the formative years of the institution, at present no certificate of graduation from the Middle School is given, excepting to those who make application for it, but the college gives a *junior certificate* covering five years work at the end of the college Freshman year, which states that the middle school and one year of college have been completed. Beginning with the year 1922, however, the present one-year junior certificate will be discontinued, and a two-year junior certificate, awarded upon the completion of the Sophomore year, will be granted.

The College of Arts and Sciences

This is open to both men and women and at present comprises four years, and also one year which is of Middle School rank but is grouped with the College for administrative purposes. The five years are called Sub-freshman, Freshman, Sophomore, Junior and Senior srespectively.

In general, the purpose of the College of Arts and Sciences is to fit students for definite lines of intelligent leadership and service in China. With this end in view, the College offers instruction in seven groups of associated studies. A more complete and detailed statement of these courses is given in a subsequent section.

The College of Arts and Sciences furnishes students a collegiate education of the thoroughness and general excellence of that to be obtained in the colleges and universities of foreign countries. The student has the advantage of keeping in close touch with his own country and of correlating his education with the economic, social and general scientific needs of China

It is felt that Chinese students can be of largest service to their country if their collegiate education be fully provided in China; that only the occasional student seeking further research will need to go abroad for study, and then only for graduate work of a highly specialized character.

The Canton Christian College offers unusual facilities in its College of Arts and Sciences. Each student is under the special care of a *faculty advisor*, with whom the student can confer freely, not only on academic matters but on personal affairs as well. Each student should feel that his advisor is genuinely interested in his welfare and it is to the advantage of the student to seek his advice and help.

The *college physician* attends all students who may require medical attention and gives each student a thorough medical examination annually.

For other details as to the College of Arts and Sciences, see the appropriate sections that follow in this catalogue.

Summer Session

In addition to the regularly scheduled work of the academic year, a Summer Session of one month is held. This consists, first, of advanced courses for those desirous of extra credits, and second, of supplementary short courses of both College and Middle School grade for those who are deficient in entrance requirements or in class standing. Further information on the Summer Session is obtainable from the Dean. A special leaflet is issued in June of each year.

College of Arts and Sciences

Admission

Application for admission to the College of Arts and Sciences is made to the Dean. This should be done some time in advance of the beginning of the academic year so that the applicant may be advised in case admission appears improbable or impossible. The intending student should procure a blank application for matriculation, fill it out completely, using the same name under which he has been enrolled elsewhere. The student must not change his name during his period of study, and should adopt the standard of romanized spelling used by the college.

An applicant must have a clean record from the school or schools last attended. He should he able to furnish a detailed statement of work done in middle school, certified by the principal or proper officer of the school from which he comes. Blanks for this

purpose may be secured on application to the Dean. New students who fail to present adequate credentials can be admitted only provisionally.

Admission to the Sub-freshman Class

To enter the *Sub-freshman Class* (Fourth Year Middle School) the applicant must present a certificate of sufficiently high standing from an accredited school, or else be able to pass examinations on the following work: English Grammar and Composition, with sufficient readiness of speech and understanding to enable him to do his work through the medium of the English language; Algebra as far as quadratic equations; Plane Geometry; Geography of the World; Elementary Science, including simple Physiology and Hygiene; Chinese History; History in brief of one Western country; Chinese Literature, and creditable skill in Chinese Composition.

Admission to the Freshman Class

To enter the *Freshman Class* the applicant must offer in addition to the above the following: Ancient and Mediæval History; Intermediate Algebra (including progressions and logarithms); Solid Geometry or Plane Trigonometry; General Science* with laboratory work and note-book records; and some knowledge of English Literature. No advanced credit can be granted students coming from other institutions for work unless it is more advanced than any offered in the Sub-freshman year. Other subjects of equivalent value may be offered in place of those enumerated above. A fair knowledge of the Bible will receive due credit. Each case will be judged on its merits. The Dean will welcome correspondence on individual cases.

Accredited Schools

Schools with standards similar to those of the Middle School of the Canton Christian College may become accredited schools and recommend their students for admission without examinations.

On recommendation of the principal of the school, students from True Light Middle School, Union Middle School and Pui Ching Middle School will be admitted to classes of the College of Arts and Sciences without examinations.

*Or a good laboratory course in Physics.

Senior and Junior Local Certificates

Students who have passed the matriculation examination of the University of Hongkong or who hold certificates of the senior Oxford and Cambridge local examinations, will be admitted to the Freshman class without further examination on the subjects covered by the senior local certificate, except Chinese.

Students who have passed the junior locals of the University of Hongkong, or of Oxford and Cambridge, will be admitted to the Sub-freshman class without further examination on the subjects covered by the junior local certificate, except Chinese.

Entrance Conditions

Applicants deficient in one or two subjects may be admitted with conditions, but such conditions must not exceed two in number and must be removed within one year. Special tutoring may be secured.

A student deficient in more than two subjects, or who fails to remove entrance conditions within one year, may be entered as an unclassified student, and enroll in such courses as he may be able to undertake with profit, subject to the approval of the Dean and the instructors concerned.

Matriculation and Enrollment

On first entering the College the applicant will be given an *application form*, which he may fill out assisted by the Dean or his probable Advisor. He will then secure from the Dean or his Advisor an *enrollment card*, and in consultation with his Advisor or Dean will indicate the particular courses for which he expects to register. When this card has been signed by the Advisor and Dean, the student will take the card to the Bursar for the payment of his fees. One portion of the card, on which will be indicated the courses for which the student has registered, and which will bear the signature of the Advisor and Dean, and the receipt-stamp of the Bursar, will be returned to the student by the Bursar. The student will then consult the *schedule of classes* found on the bulletin board, and determine his own schedule for each week.

The acceptance of an applicant by the College for the first time is called his *matriculation.*

When a student enters the College after having been matriculated or re-enters the College as an old student the act is called his *enrollment.*

On going to classes for the first time, he should exhibit his receipted enrollment card to each teacher, who may enroll him as a member of the class. In case the student is not able to present a receipted enrollment card the first time, he must show a statement from the Bursar to the effect that the payment of fees has been arranged for. *No credit* can be given for work done unless a student is properly enrolled in a class, nor can any student be permitted to attend classes without having been properly enrolled, except by special permission of the Dean. Therefore it is to the interest of each individual student to make sure that he accomplishes his own registration each semester in each class.

No change can be made in the enrollment schedule of a student after he has once enrolled, except by permission of both Advisor and Dean. As this permission will be given only for good reasons that could not ordinarily have been foreseen at the time of enrollment, students should make very sure of their schedule of courses at first enrollment. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Dean.

Students enrolling four weeks or more after the opening of a semester cannot receive full credit for work done during that semester, even though they are able to make up all work lost.

Unless specially excepted, a student must enroll in one of the prescribed groups of courses. A student may elect any subject open to his class and suitable to his line of study, provided, of course, he shall have had the prerequisite courses.

No student will be permitted to continue in the study of any subject, if the instructor in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. Any instructor may at any time exclude from his course any student, who in his judgment has neglected the work of the course.

Credits and Standing

At least 16 credit-hours must be attempted each semester, except in case of illness or when a student is doing other work of recognized character. A student will normally be expected to carry about 16 to 20 credit-hours, the number of credit-hours depending upon the character of work being studied. The maximum for students in the prescribed groups is from 20 to 24 hours. The maximum for Sub-freshmen is 25 hours.

Credit will be given for work, without regard to how small the amount may be which is done at one time, provided it be of approved quality. All credit is given by points or credit-hours. In general, one credit-hour represents one hour a week of class-room work or two hours a week of laboratory work for one semester. Fractional credits are not granted.

Credit may be secured by non-resident students for satisfactory work done by visits or by correspondence but not over thirty credits thus obtained may count toward a degree.

A student is ranked according to the number of credits he has secured. A student having less than 30 credits shall be ranked as a *Freshman*, one having 30 but less than 65 credits as a *Sophomore*, one having 65 but less than 100 as a *Junior*, and one having 100 credits or more as a *Senior*.

The passing grade is a semester mark of 70. A student receiving a grade less than 70 but not lower than 60 in any subject, or whose work is incomplete, shall be conditioned.

Such a condition received at the end of the first semester may be removed by re-examination within the first four weeks of the second. If received in the second semester it may be removed before the beginning of the next academic year.

A student failing to remove a condition within the prescribed time, or receiving a grade below 60, is marked with a failure, and cannot receive credit for the subject in question unless he repeats the course in class.

As a rule the College expects to give any course offered if a sufficient number of properly qualified students apply, but it reserves the right to alter or to withdraw any course.

Fees, Deposits and Expenses

FEES

All are in Hongkong Currency and all except Laboratory Fees are to be paid before residence is taken up.

	1st Sem.	*2nd Sem.*	*Year*
Tuition			
Sub-freshman	$100	$60	$160
Freshman to Senior	75	50	125

Laboratory (due within 5 days after registering for course)

Agriculture, from each student in the Agricultural Group	10
Biology I and other one-semester courses	5
Biology IIa and IIb, each semester $10	20
Physics	15
Chemistry, according to course taken, varies from $5 to $20	

Piano Instruction Fee A special charge will be made to be announced later.

Trips and Camping (approximate) 6

Quarters	*1st Sem.*	*2nd Sem.*	*Year*
Usual space	$25	$25	$50
Special quarters, when available	15	15	30
Board	30	30	60
Laundry	4	4	8
Student Union	3	2	5

Registration Fee (Required of all applicants for admission to the College) 1

Guarantee Deposit 10

Gown (on entrance and whenever needed) 8

Special Examinations

Entrance examination not at a scheduled time	4
Re-examinations except the first, or special, each subject	2

Delinquency Fee

A student who is late, either in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of $2 a day, with a maximum total of $10.

B.A. Diploma Fee

A fee of $7.50 U.S. currency is required to cover the cost of the B. A. diploma from the Regents of the University of the State of New York.

Marriage and Fees

It is considered that a student who is married while his name is on the school rolls is more nearly able to pay the costs of his instruction, and hence shall pay double tuition. New students, if married, shall be liable to the same double charges unless excused by special action.

Special Students

An additional tuition fee of $20 or $40 per semester is charged any student requiring special tutoring or care, subject to the decision of the Dean.

A special student studying less than full time may pay tuition according to the number of credit-hours for which he is enrolled.

OTHER EXPENSES

Besides his college fees, the student will need to provide for a number of other expenses, the amount for which will vary with his personal habits. By practising economy it is possible for a student to maintain himself at the College for very little more than the cost of his college fees, board, room-rent, laundry, clothing, and necessary travel to and from his home. Books will cost about $25, but more may be spent advantageously. The College provides a sufficient amount of good and nourishing food for all students, which is covered by the boarding fee, but some students buy "extras" which increase expenses. Clothing is an item that will vary greatly with individuals.

In addition to these items, allowance should be made for class dues, literary society dues, contributions, boat and ricksha fares, medicine, stationery and postage, and other miscellaneous incidentals. $25 would be a low allowance for these incidentals for the school year, $50 would be moderate, and $100 would be liberal. Students should provide their own furniture.

No student should be deterred from entering or continuing his study at the College because of inability to meet the expenses. Special provision is made for scholarship aid and opportunities for self-help are also available.

SUMMARY OF EXPENSES

Freshman to Senior	*1st Sem.*		*2nd Sem.*		*Year*	
	Low	*High*	*Low*	*High*	*Low*	*High*
Fees	$122	$137	$95	$110	$217	$247
Laboratory	5	25			5	25
Other Expenses					50	200
Total					$272	$472

Sub-freshman	*Low*	*High*	*Low*	*High*	*Low*	*High*
Fees	$155	$170	$105	$120	$260	$290
Laboratory	15	25			15	25
Other Expenses					50	200
Total					$325	$515

Students who matriculate after the first semester has closed, pay fees at first semester rates, and in addition gown fee and deposit.

Student Aid

Employment Bureau. The College maintains a student employment bureau to assist students desiring to earn a portion of their expenses and to secure positions for graduates and other students. Others desiring a position in a school in this province would also do well to apply.

The average student who undertakes outside work is not able to carry a full schedule of studies and should allow a longer period in which to complete the college course. Excellent opportunity is offered in the agricultural department to students who have completed one or two years of the course and who are willing to spend the remainder in part time employment. This enables them to secure the much needed experience for success in this field.

Student Loan Fund. A small fund has been accumulated by gifts from students, teachers and friends. This is available for the aid of deserving students in need of help. Once each month a collection is taken at Sunday service and turned over to this fund by the ushers. Students, teachers, churches, missions, missionaries, and other friends are urged to contribute to this fund. The Bursar takes care of the money.

A student wishing to borrow from this fund should send in an application, addressed to "The Manager of the Student Loan Fund," a month before the close of the previous semester. Applications sent in later than this will be less likely to be granted. Not more than $50 is loaned to one student in a year. On securing a loan the student is required to sign a note promising to repay as soon as he is able. The loans bear interest at 6 per centum per annum from the time the student's name ceases to be on the rolls of the school; the interest is compounded if not paid annually. The loan is determined by the Student Aid Committee and is secured by the student from the Bursar upon an order from the Manager. Notes are given to the Bursar and loans and interest are paid to him.

Scholarships

Applications.

Any student or prospective student needing financial assistance should apply to the Dean for information and application forms.

Funded Scholarships.

The following funded scholarships are awarded each year to deserving students: Taam Yau Fan (譚有芬) Scholarship, Charles T. Bagby Scholarship, Henry Martin Scholarship and Edmunds Memorial Scholarship. These represent funds of $1,000 gold each, the interest from which is given annually as a loan to students under certain conditions.

Annual Gift Scholarship.

Mr. Francis A. Carl, formerly Commissioner of Customs in Canton, provides an annual gift scholarship covering tuition for one student.

MISSION SCHOLARSHIPS.

A student who is the son or daughter of a Christian pastor or mission worker may, on application to the Scholarship Committee, be granted the whole or part of his tuition, according to his standing.

M. T. TANG SCHOLARSHIP IN BUSINESS ADMINISTRATION.

Through the generosity of Mr. M. T. Tang, (鄧文菲) of Hongkong, a former student, who has donated $1,500 H. K. currency for this purpose, special scholarship aid is offered to students in business administration in grants of $50 each, not subject to the loan conditions which apply to ordinary scholarship aid. Awards may be made to more than one student in any given year, and the same student may be awarded more than one unit. Applicants for aid under this scholarship fund should write to the Dean, and the awards, which may be made after a competitive examination, will be determined by the faculty.

SEATTLE VOCATIONAL SCHOLARSHIPS.

The China Club of Seattle, in cooperation with the Chamber of Commerce of that city, with the University of Washington, and with several business firms, has assigned to the Canton Christian College five scholarships for commercial study in America.

Candidates for these scholarships are to be nominated by the College. On appointment each student will be furnished six hundred dollars ($600) U. S. currency per year for expenses by the business firm with which he is to be associated. In addition to this the firm will defray the cost of the student's tuition fees at the University of Washington. The student's time will be divided between service to the firm and study in the university, the latter undertaking to furnish courses requisite to the plan. One student from the College has already been appointed in 1920 and has entered upon this course of study.

GENERAL SCHOLARSHIPS.

In addition to the scholarship provisions described above, the College will make it possible for any student who needs financial assistance to receive it. The amount of this assistance will be determined largely by the student's scholastic standing, but due weight will be given to his diligence, non-scholastic activities, and character.

It is hoped that those who are interested in this phase of the work of the College will give Memorial Funds, the interest on which is to be used for scholarship aid. Annual gifts of $50, $100, $150 or $200 will also make it possible to continue a liberal scholarship policy.

Meanwhile, the College will render such assistance as it is able, in addition to the Funded and Annual Gift Scholarships. Students are urged to confer with their Advisors or the Dean regarding additional aid if they need it, and applicants for admission who need such assistance are asked to get and fill out scholarship application forms at as early a date as possible.

Awards of scholarships are made for the full academic year, with the understanding that scholarship aid will not be continued in the second semester, unless the student has maintained his scholastic record and is regarded as worthy.

Rules Regulating Scholarships

Every student receiving scholarship aid, except as a prize, is required to sign a note in recognition of the same, to be repaid as follows:

1. Any student receiving aid during his middle school course, including the Sub-freshman year, remaining through the Sub-freshman year, shall be considered to have repaid one-third of his indebtedness existing at that time.

2. Any student finishing the College course shall be considered to have repaid two-thirds of his indebtedness at the time of graduation from the College.

3. A student entering Christian work, that is, who is employed by mission societies or churches, may, on application and approval, be considered to have repaid his indebtedness at the rate of one-third of the amount owing at the time he left school, for every year of such service.

4. All indebtedness not discharged according to the above conditions shall be repaid at the annual rate of one-tenth of the amount due when the student left school, or when he left the service of the mission. The first payment will be due one year from date of leaving school or mission. No money payment is necessary while the student is in the employ of a mission, or while studying for more than half time in another school.

5. All overdue payments shall bear interest at 4 per centum per annum.

Prizes

HONOR PRIZE, awarded annually to the student who ranks highest in scholarship, deportment and attendance.

COLES SCIENCE PRIZE, awarded annually to the Freshman who attains the highest general average of scholarship in science, on the basis of all science work done in his Sub-freshman and Freshman years.

COLES MATHEMATICS PRIZE, awarded annually to the student who has done the most meritorious work in mathematics during the year in Freshman or Sub-freshman courses.

ATHLETIC PRIZE, awarded annually to the student who has done the most during the year to promote athletics.

CHAMBERS CHINESE ESSAY PRIZE, the gift of Rev. R. E. Chambers, D.D., Canton, and awarded annually to the student submitting the best essay in Chinese.

Certificates

HONOR CERTIFICATES

A student who maintains an exceptionally high standing may be declared an honor student and receive an Honor Certificate at the commencement exercises of the year. The number of such honor students may not exceed five per centum of the total number of students enrolled. The awards are made chiefly on the basis of scholarship, but due weight is given to diligence, non-scholastic activities and personal character.

CERTIFICATES FOR WORK COMPLETED

Students who wish to pursue professional study elsewhere will be given complete and detailed certificates for the work done at this College up to the last semester they have completed, and every attempt will be made to secure for them proper standing at the school to which they go.

Transcripts of academic records, after the first, will be charged for at the rate of two dollars ($2.00) each.

JUNIOR CERTIFICATES

When a student has completed 36 credits of collegiate work and has removed all entrance conditions, thus completing the Freshman year, he may be awarded a one-year *Junior Certificate*. One-year junior certificates will not be awarded after 1921.

Beginning with the year 1922, a two-year Junior Certificate may be awarded a student who has completed 65 or more collegiate credits in any one of the groups of courses and who has no entrance conditions. In the case of the Pre-medical and Pre-theological groups, the student must have completed the full course of study as outlined in order to receive a junior certificate for the groups.

Graduation and Diplomas

DEGREE OF BACHELOR OF ARTS

In order to qualify as a candidate for graduation from the College of Arts and Sciences and for the Degree of Bachelor of Arts, a student must have completed 140 credits* of collegiate work, including the prescribed amount of work in each course as required in the group in which he seeks his degree. A student who is a candidate for a degree in the Agricultural Group must present a thesis which has been approved by the Director of Agricultural Work.

Candidates for a degree must be students in good standing and must have been in residence for at least two semesters immediately preceding candidacy.

Candidates for a degree must be recommended by the Faculty of the College of Arts and Sciences and approved by the Representative of the Regents of the University of the State of New York. The diploma is given by the Regents of the University of the State of New York, upon recommendation from the Trustees of the Canton Christian College. A diploma fee of $7.50 U.S. currency is charged.

The degree is conferred upon a successful candidate at the commencement next following the completion of his course of study and other requirements.

*One credit is represented by one hour recitation or two hours laboratory work per week for one semester.

Graduate Study

At present, the College offers but limited facilities for graduate study. The regulations covering this work may be learned on application to the Dean.

Graduate Standing Abroad

Graduates of the Canton Christian College, upon presentation of a B. A. diploma and transcript of academic record, will be admitted, on recommendation of the Dean, without examination into the graduate schools of Columbia University, Yale University, University of California, University of Wisconsin, Johns Hopkins University, Cornell University, University of Chicago, University of Illinois, University of Michigan, University of Minnesota, University of Washington, University of Toronto, and others, on substantially the same basis as graduates of other accredited colleges and universities in America.

General Regulations

Note: For additional regulations and details, see the Bulletin of Regulations and Information.

EVERY STUDENT under this faculty must engage regularly in some *athletic work* or drill. Sub-freshmen may be required to serve as officers in the middle school battalion.

All students are required to attend *daily chapel* and *Sunday morning exercises*.

Students are expected to wear *academic dress* at the first religious service of the College on the second Sunday of each month, and at other times on request.

Permission for *absence* from classes must be obtained from both the instructor of the class and the attendance officer before the absence.

Excepting absences caused by illness or late enrollment, excused absences in any course in one semester are limited to *one more than* the credit-hours in that course. Loss of credit and standing will follow any exceeding of this limit.

No Freshman or Sub-freshman is allowed to leave the campus at any time during the session without a permit from the attend-

ance officer. Freshmen, Sub-freshmen and unclassified students are responsible to the Attendance Officer for absences; other students are responsible to their advisors.

Students leaving College without due permission forfeit all rights and privileges as students and can not be received again except as new students.

Grades are made up at the end of each semester by a combination of examination grades, daily grades, and grades for other work. Instructors may be asked also in the middle of the term for an estimate of the student's standing. The passing grade is 70.

The Faculty endeavors to arrange frequent *lectures* by specialists upon subjects of general interest to the faculty and students. Lectures and entertainments on Saturday evenings are provided. These are also usually open to middle school students.

Every student is on his *honor* to do his own work on examinations and other work for which credit is sought. Obtaining or giving of aid in such work is considered dishonest.

Students are permitted to study in the *dormitory* and their rooms are to be open for inspection at any time, and should be kept neat, orderly and quiet. No dining is allowed in the dormitory rooms, except in dining rooms, nor may any food be stored in the dormitory.

The management of the *Boarding Department* is in the hands of a committee of the Student Union elected each semester, subject to the final authority of the Council committee consisting of the Dean and the Bursar.

The formation of any student organization on the College grounds must be approved by the executive of the school concerned. Such approval must also be obtained for its constitution, regulations, fees, and activities; likewise for any subsequent changes in the same. Such organizations must report promptly to the Dean, the officers selected from time to time. A list of the college organizations is given elsewhere in this catalogue.

Finances

The annual or semester budget of each general student organization (that is, one composed of a majority of the students in any school), and of each student organization with an annual budget of

over $200 H. K., must be approved beforehand by the executive of the school concerned.

All accounts of such organizations, and of teachers' organizations, must be audited, as soon as closed for the year or semester, by the College Auditor and a copy filed with the Bursar. Any unbusiness-like use of funds must be reported by the Auditor to the President and any serious departure from the budget to the executive who approved it.

Smaller student organizations or classes must keep their expenditures within their regular fees. For breaches of these rules, the president and treasurer of the organization will be held personally responsible.

The raising of money or soliciting of subscriptions by any individual or organization on the College grounds without the consent of the President is strictly prohibited.

MEETINGS.

Meetings of the student body or general student organizations may be held after obtaining permission of the executive of the school concerned, and after posting a notice of the meeting in both English and Chinese on the bulletin board of the school concerned, or having it announced at the proper chapel service. Permission for regular scheduled meetings may be obtained in advance for a whole year, until changes are made.

Whenever the Auditorium in Swasey Hall is to be used for any purpose it is necessary to reserve the use of it by application to the President.

The word "meeting" in all cases includes parades and celebrations.

No secret societies may be formed, except under special regulations.

Regulations for College Women

1. College women, except daughters of the staff, should all live in dormitories. Special permission to live elsewhere may be given to near relatives of the Staff, but for this the consent of the President is necessary.

2. Young women may go to Canton only with a chaperon, except under special permission based upon the written request of parent or guardian.
3. Young women must be back on the campus before 6:30 p.m. between November and February inclusive; all other months before 7:30 p.m.
4. Young women may not under any circumstances enter the men's dormitories or the space within the dormitory quadrangle.
5. Young women may not take walks after dark.
6. Young women may receive callers in the reception room of their dormitory until 7:30 p.m. any evening, and on Sundays and Mondays until 9:30 p.m.
7. All permits for absence from classes must be approved by both the Attendance Officer and the Dean of Women.
8. Permits for other absences are given by the Dean of Women.
9. For all other academic matters, women students will consult the class advisor.
10. College women are responsible directly to the Dean of Women for their personal conduct and relationship to the College.

General Statement of Courses

Seven groups of subjects are offered in the College of Arts and Sciences: General Arts, Natural Science, Chemistry, Agriculture, Pre-medical and Pre-theological. All of these courses presuppose the Canton Christian College Middle School course or is equivalent.

GENERAL ARTS GROUP *(Four Years)*

Those students who desire a liberal education preparatory to entering such professions as middle school teaching, translating, interpreting, journalism, literary work, lecturing, religious service, and the like, will find it best to follow, in the main the General Arts course.

NATURAL SCIENCE GROUP *(Four Years)*

Those students who look forward to a scientific and technical career, such as biological research, chemical and physical engineering,

Chemistry Group (*Four Years*)

The constantly increasing service of Chemistry in industry and civilization, as well as its specific application to many of the new problems of China's productivity and economic welfare, turn an increasing number of students to its study and practice.

Social Science Group (*Four Years*)

Those seeking to prepare for business, law, banking, foreign commerce, statistical research, social and government service etc., will get the best preparation by following the Social Science group of studies.

Agricultural Group (*Two Years or Four Years*)

The aim of the college courses in Agriculture is to give the student such experience in the field and theoretical knowledge that he can appreciate the problems of the peasant and really help him. Each student puts into practice in a garden of his own the ideas he learns in studying horticulture. He is also instructed in marketing. For the courses in animal husbandry there are on the campus foreign dairy cows, dairy and work carabao, hogs, horses and poultry.

The student who plans to take only the Junior Certificate in Agriculture is directed primarily into the courses dealing with agricultural production. If he is planning, upon the completion of this short course, to enter either educational or commercial phases of agriculture he is advised to take also some courses in education or business.

The four-year student in agriculture is required to carry the science courses necessary to fit him for more advanced work in agricultural education and research. He is allowed a wide range of options in science, education, economics and business and is assigned special problems in agricultural investigation.

Pre-medical Group (*Two Years*)

The Pre-medical group of studies aims to prepare students for entrance to the best medical colleges of China and abroad, and seeks to maintain a standard sufficient to enable those who have completed the sophomore year in this group to enter directly such institutions as the Peking Union Medical College and the Hunan-Yale College of Medicine. Students completing this course will be awarded a Junior Certificate in Pre-medical Subjects.

Pre-theological Group (*Two Years*)

This course, covering freshman and sophomore years, is outlined elsewhere. Students completing this course will be given a two-year Junior Certificate in Pre-theological Subjects, admitting them without examination to the Divinity School of the Union Theological College of Canton.

Affiliation with the Theological Seminaries in Canton

Arrangements have been made with the Canton Union Theological College and with the Graves Theological Seminary of the Southern Baptist Convention Mission, Canton, whereby students of the Canton Christian College may elect certain courses at either seminary and secure credit both towards a degree from the College and a diploma from the seminary. A reciprocal privilege is enjoyed by students of the two seminaries. Full details as to this matter may be obtained on application to the Dean of the College of Arts and Sciences, or to the president of either seminary.

Required and Elective Courses

IN ALL GROUPS, certain courses are required of all students. The required courses are found chiefly in the lower classes of the College, but even here a wide range of electives is offered. In general, a student may take any course which is open to members of his class in any group, provided he shall be taking the required work in his own course and shall have had the prerequisite work in the subject.

In the following tables the studies are indicated which are open to a student for each semester in the College. The student should first enroll in the prescribed courses, if possible. No student can receive his degree unless he shall have completed his required courses or their equivalent.

Courses designated by a small letter *a* or *b* following the course number, e g., English Ia and Ib, are year courses, and ordinarily the entire course must be completed before credit can be counted toward a certificate or degree.

Prescribed Subjects for Degree

In order to be eligible for the B. A. degree, the student must present *at least* the following credits in prescribed subjects:

General Arts Group

English	16	credits
History	12	,,
Economics	8	,,
Religion	8	,,
Composition in Chinese*	16	,,
Science	10	,,
Psychology	3	,,
Philosophy	3	,,
Government, Sociology, History or Economics	6	,,
Total prescribed	82	,,

Natural Science Group

English	8	credits
Science†	54	,,
Mathematics	8	,,
Religion	8	,,
Composition in Chinese*	16	,,
Total prescribed	94	,,

Chemistry Group

English	8	credits
Chemistry	65	,,
Other Science	15	,,
Mathematics	24	,,
Economics	8	,,
Religion	8	,,
Composition in Chinese*	16	,,
French or German	10	,,
Total prescribed	154	,,

Social Science Group

English	8	credits
Economics	14	,,
History	12	,,
Science	10	,,
Religion	8	,,
Composition in Chinese*	16	,,
History, Government, Economics, Business or Sociology	24	,,
Total prescribed	92	,,

Agricultural Group

Agricultural Courses‡	60	credits
Biology	10	,,
Composition in Chinese*	16	,,
Chemistry	18	,,
Economics	6	,,
English	2	,,
Religion	8	,,
Total prescribed	120	,,

*Or 2 credits for every semester completed at this College. In some years substitute courses are provided.

†At least 12 credits must be presented in each of the following sciences: Biology, Chemistry and Physics.

‡26 of these credits must be chosen from courses offered under "Agricultural Electives".

Sub-freshman Courses

(PREREQUISITE TO ALL GROUPS)

General Arts, Natural Science, Chemistry, Social Science and Pre-theological Groups

First Semester Subject	Hrs.	Second Semester Subject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
History A	3	History B	3
Religion A	1	Religion B	1
Chinese A	2	Chinese B	2
Composition in Chinese A	2	Composition in Chinese B	2
Elective	4 or 6	Elective	4 or 6
to be selected from		to be selected from	
†English C	2	†English	2
Mathematics A	4	Mathematics A	4
Business A	4	Business B	4
Education A	3	Education B	3
Chinese C	2	Chinese D	2
Total	23 or 25	Total	23 or 25

Agricultural Group

First Semester Subject	Hrs.	Second Semester Suject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
Farm Crops A	‡5	Animal Husbandry B	‡5
Religion A	1	Religion B	1
Chinese A	2	Chinese B	2
Composition in Chinese A	2	Composition in Chinese B	2
Elective	2 or 4	Elective	2 or 4
to be selected from		to be selected from	
†English C	2	†English D	2
Mathematics A	4	Mathematics B	4
Business A	4	Business B	4
Education A	3	Education B	3
Chinese C	2	Chinese D	2
Total	23 or 25	Total	23 or 25

*4 hours class-room, 4 hours laboratory or field work, 6 credit-hours.

†English C and D may be required of any student upon recommendation of the instructor in English A and B.

‡ 3 hours class-room, 4 hours laboratory or field work, 5 credit-hours.

PRE-MEDICAL GROUP: See page 49.

SUMMARY OF COLLEGE COURSES

GENERAL ARTS GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Composition in Chinese I	2	Composition in Chinese II	2
	English Ia	4	English Ia	4
	History Ia	3	History Ib	3
	Biology I	3	Religion I	2
	Economics Ia	4	Economics Ib	4
	Elective, not more than	4	Elective, no more than	5
Sophomore	Composit. in Chinese III	2	Composit. in Chinese IV	2
	English	3	English	3
	History	3	History	3
	Religion		Religion	
	†Science		†Science	
	Electives		Electives	
Junior	Composition in Chinese V	2	Composit. in Chinese VI	2
	English		English	
	Religion		Religion	
	Electives		Electives	
Senior	Composition in Chinese VII	2	Composition in Chinese VIII	2
	Psychology	3	Philosophy I	3
	English		English	
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†A course in Science (Biology, Chemistry or Physics) is required of Sophomores who have not had a full year's course in a College science.

SUMMARY OF COLLEGE COURSES

NATURAL SCIENCE GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Composition in Chinese I	2	Composition in Chinese II	2
	Biology I	3	Religion I	2
	Biology IIa	3	Biology IIb	3
	Chemistry Ia	6	Chemistry Ib	6
	English Ia	4	English Ib	4
	Elective, not more than	4	Elective, not more than	5
Sophomore	Composit. in Chinese III	2	Composit. in Chinese IV	2
	Physics, Chemistry or Biology		Physics, Chemistry or Biology	
	Religion		Religion	
	Electives		Electives	
Junior	Composition in Chinese V	2	Composit. in Chinese VI	2
	Religion		Religion	
	Electives		Electives	
Senior	Composition in Chinese VII	2	Composition in Chinese VIII	2
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

SUMMARY OF COLLEGE COURSES

CHEMISTRY GROUP

(Maximum 22, Minimum 18 credit-hours)

YEAR	Semester I		Semester II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Composition in Chinese I	2	Composit. in Chinese II	2
	Mathematics I	4	Mathematics II	4
	English Ia	4	English Ib	4
	Biology I	3	Religion I	2
	Chemistry Ia	6	Chemistry Ib	6
	TOTAL	19	TOTAL	18
SOPHOMORE	Composit. in Chinese III	2	Composit. in Chinese IV	2
	Mathematics III	4	Mathematics IV	4
	German Ia or French Ia	5	German Ib or French Ib	5
	Physics Ia	6	Physics Ib	6
	Chemistry IIa	5	Chemistry IIb	4
	TOTAL	22	TOTAL	21
JUNIOR	Composition in Chinese V	2	Composit. in Chinese VI	2
	Mathematics V	4	Mathematics VI	4
	Religion IIIa	2	Religion IIIb	2
	Chemistry IIIa	4	Chemistry IIIb	4
	Chemistry VIIa	7	Chemistry VIIb	8
	TOTAL	19	TOTAL	20
SENIOR	Composit. in Chinese VII	2	Composit. in Chinese VIII	2
	Economics Ia	4	Economics Ib	4
	Religion	2	Chemistry XII	3
	Chemistry XIa	7	Chemistry XIb	6
	Electives (Choose one)	(15)	Electives (Choose one)	(15)
	Chemistry Va	3	Chemistry Vb	4
	Mineralogy	3	Mineralogy	3
	Chemistry IX	4	Chemistry VIII	2
	TOTAL NOT OVER	19	Chemistry X	4
			TOTAL NOT OVER	19

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

SUMMARY OF COLLEGE COURSES

SOCIAL SCIENCE GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Composition in Chinese I	2	Composition in Chinese II	2
	English Ia	4	English Ia	4
	History Ia	3	History Ib	3
	Biology I	3	Religion I	2
	Economics Ia	4	Economics Ib	4
	Elective, not more than	4	Elective, not more than	5
SOPHOMORE	Composit. in Chinese III	2	Composit. in Chinese IV	2
	Economics	3	Economics	3
	History	3	History	3
	Religion		Religion	
	†Science		†Science	
	‡Electives		‡Electives	
JUNIOR	Composition in Chinese V	2	Composit. in Chinese VI	2
	Religion		Religion	
	‡Electives		‡Electives	
SENIOR	Composition in Chinese VII	2	Composition in Chinese VIII	2
	‡Electives		‡Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†A course in Science (Biology, Chemistry or Physics) is required of Sophomores who have not had a full year's course in a College science.

‡Chiefly from courses in History, Economics, Government, Business Administration, and Sociology.

SUMMARY OF COLLEGE COURSES

AGRICULTURAL GROUP

(Maximum 22, Minimum 18 credit-hours)

YEAR	Semester I		Semester II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Composition in Chinese I	2	Composit. in Chinese II	2
	Chemistry Ia	6	ChemistryIb	6
	Biology I	3	Biology VIII	3
	Economics IIa	3	Economics IIb	3
	English IIa	1	English IIb	1
	Animal Husbandry I	3	†Religion I	2
	Agricultural Electives:		Agricultural Electives:	
	Forestry I	3	Horticulture II	2
	Horticulture I	2	Farm Equipment I	2
SOPHOMORE	Composit. in Chinese III	2	Composit. in Chinese IV	2
	†Religion	2 or 3	†Religion	2 or 3
	Chemistry IV	6	Animal Husbandry II	4
	Agricultural Literature	2	Horticulture IV	3
	Horticulture III	3	Agricultural Electives:	
	Agricultural Electives:		Animal Husbandry IV	3
	Animal Husbandry VI	2	Chemistry VI	7
JUNIOR	Composition in Chinese V	2	Composit. in Chinese VI	2
	†Religion	2 or 3	†Religion	2 or 3
	Biology III	4	Farm Crops I	3
	Animal Husbandry III	3	Plant & Animal Breeding	3
	Farm Experience	6	Agricultural Electives:	
	Agricultural Electives:		Chemistry X	4
	Chemistry XIV	4	Animal Husbandry IX	3
	Animal Husbandry VII	3	Farm Equipment II	3
	Horticulture V	3	Biology VI	3
SENIOR	Composit. in Chinese VII	2	Composit. in Chinese VIII	2
	Irrigation and Drainage I	3	Soils II	3
	Soils I	4	Thesis	
	Agricultural Electives:		Agricultural Electives:	
	Chemistry X	4	Animal Husbandry V	3
	Animal Husband. VIII	2	Farm Management II	3
	Farm Management I	3	Forestry II	3
	Horticulture VI	3	Horticulture VII	3
	Biology XII	3	Biology VII	4

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†Eight credits in Religion are required for a degree.

Supplementary Note: Biology IIa and IIb are required to have been completed by the end of the Sophomore year.

SUMMARY OF COLLEGE COURSES

PRE-MEDICAL GROUP

Year	Semester I		Semester II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
SUB-FRESHMAN	English A	5	English B	5
	Physics A	6	Physics B	6
	Religion A	1	Religion B	1
	Composition in Chinese A	2	Composition in Chinese B	2
	Chinese A	2	Chinese B	2
	Mathematics A	4	Mathematics B	4
	History A	3	History B	3
	TOTAL	23	TOTAL	23
FRESHMAN	Chemistry Ia	6	Chemistry Ib	6
	Biology I	3	Religion I	2
	Biology IIa	3	Biology IIb	3
	Composition in Chinese I	2	Composition in Chinese II	2
	English Ia	4	English Ib	4
	German Ia	5	German Ib	5
	TOTAL	23	TOTAL	22
SOPHOMORE	Physics Ia	6	Physics Ib	6
	Chemistry IV	6	Chemistry VI	7
	Composit. in Chinese III	2	Composit. in Chinese IV	2
	Biology X	3	Biology III	3
	Biology XI	5	Biology XII	3
	TOTAL	22	TOTAL	21

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

Erratum: On page 49, under **Sophomore Year**, read Biology XIa and XIb instead of Biology X, XI (first semester) and III (second semester).

SUMMARY OF COLLEGE COURSES

PRE-THEOLOGICAL GROUP

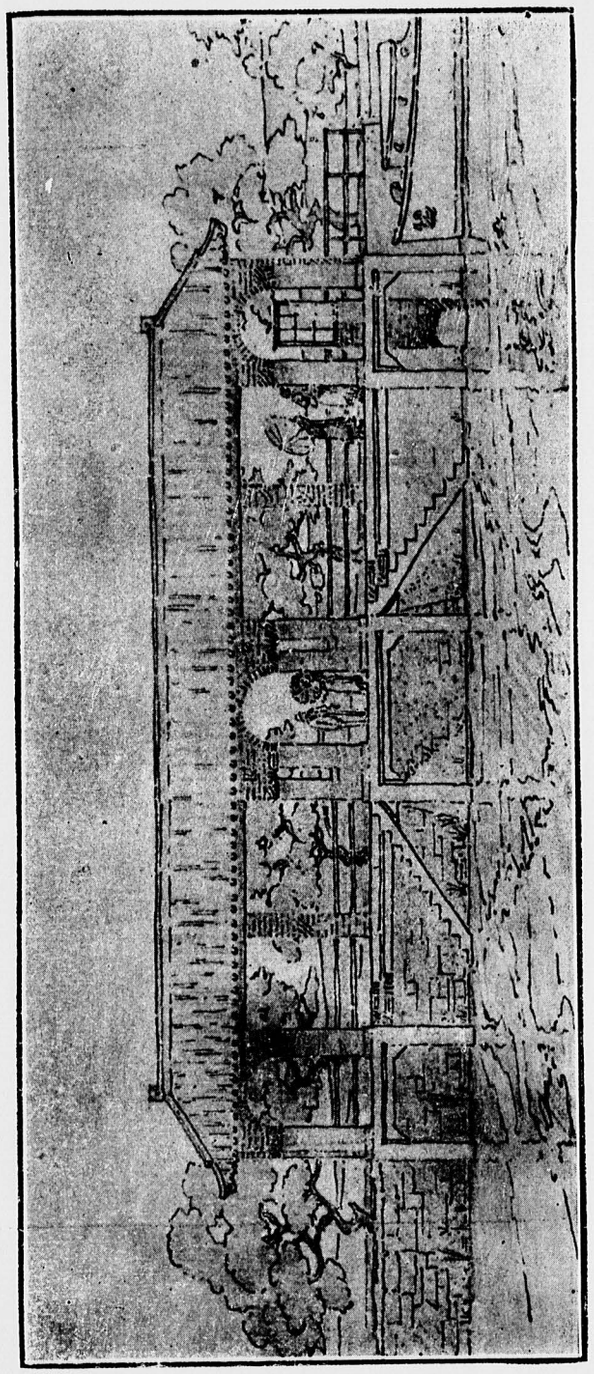
(Maximum 20, Minimum 18 credit hours)

YEAR	Semester I		Semester II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Chinese	6	Chinese	6
	English Ia	4	English Ib	4
	Biology I	3	Biology XII	3
	Logic Ia	3	Logic Ib	3
	Greek	2	Greek	2
	Old Testament History	2	Old Testament History	2
	TOTAL	20	TOTAL	20
SOPHOMORE	Chinese	4 to 6	Chinese	4 to 6
	Psychology	3	Ethics	3
	Philosophy	3	Sociology	3
	Greek	3	Greek	3
	Comparative Religion	2	Comparative Religion	2
	History Ia	3	History Ib	3
	TOTAL	18 to 20	TOTAL	18 to 20

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.



REPRESENTATIVES OF THE COLLEGE IN THE FAR EASTERN OLYMPIC GAMES AT MANILA, MAY 1919



New Wharf, Canton Christian College

COURSES OF STUDY IN DETAIL

AGRICULTURE

Professor G. W. Groff; Associate Professor C. O. Levine; Mr. Taam Sik Hung; Mr. W. L. Funkhouser; Mr. F. A. McClure.

THE CANTON CHRISTIAN COLLEGE has an ideal location and excellent facilities for the work of the various agricultural courses. It is situated just within the tropics, in the heart of the great Canton Delta, famous throughout the world for its intensive agriculture; within this area are grown a wide range of sub-tropical and temperate plants. The College is also in close proximity to the wonderful markets of Canton, where are found in season a wide variety of products of this and other provinces.

The College has a campus of one hundred and fifty acres, about sixty of which are devoted to modern farming, market gardening, fruit culture, grain growing, dairying, stock-raising, etc. The remainder of the campus is devoted to buildings and layout of grounds, on which will be found a large selection of native and foreign trees and shrubs. In the immediate vicinity of the College are the farms of scores of villages, which devote themselves almost entirely to agricultural pursuits. The Kwangtung Agricultural Experiment Station, with more than sixty acres of land, is directly across the river from the College and is easily accessible. The agricultural staffs of the two institutions are in close touch with each other and co-operate in various undertakings.

The College is also in co-operation with the United States Department of Agriculture and with the government of the Philippines. Important agricultural investigations are being carried out. The agricultural staff of the College is also directly associated with several state agricultural institutions in the United States. These connections offer to faculty and students every facility for keeping in touch with the most advanced methods of agriculture and for transmitting from one country to the other desirable agricultural practices.

Agricultural Literature

I. Agricultural Literature. Much valuable agricultural information is not available to the average student because he is not acquainted with the agricultural literature of his own and other countries. This course is designed to assist the student in finding these sources of material. The preparation of a bibliography of the available literature of various phases of agriculture is required.

Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

Animal Husbandry

The courses in Animal Husbandry are so arranged as to give the student special instruction in the selection, breeding, feeding, marketing, and management of all kinds of live stock. Attention is given to sanitation and the treatment of the more common forms of diseases to which animals are subject. The student is taught to study the animal from the standpoint of the breeder and the feeder. The college live stock includes poultry, hogs, buffaloes both for milk and draft purposes, modern breeds of horses and dairy cows. A model dairy of twenty-nine buffalo and foreign cows supplies milk to the community. The management of this dairy offers practical demonstration to students interested in dairying.

B. Farm Animals. An introduction to the courses in Poultry and Live Stock which follow. Acquaintance with the various breeds and classes of farm animals; practice in judging and handling of farm animals.

Hunt and Burkett: Farm Animals.
Class-room 3 hours, field 4 hours (5 credits); one semester.

I. Stock Judging. Horses, beef cattle, and hogs.

Gay: Principles and Practice in Live Stock Judging.
Class-room 1 hour, field 4 hours (3 credits); one semester.

II. Poultry Production. General problems of poultry raising including incubation, housing, etc. The field work consists of the actual care of flock by the students, under the supervision of an instructor.

Lippincott: Poultry Production, supplemented with lectures and bulletins.
Class-room 2 hours, field 4 hours (4 credits); one semester.

III. Dairying. Dairy live stock judging and dairying; sanitation and live stock buildings.

Eckels: Breeds of Dairy Cattle.
Wing: Milk and its Products. Lectures and bulletins.
Class-room 1 hour, field or laboratory 4 hours (3 credits); one semester.

IV. Principles of Feeding. The digestive system and the process of nutrition; theory of practical economy of rations, both for maintenance of and fattening all classes of animals. Practical training is given the student in feeding live stock owned by the College.

Henry and Morrison: Feeds and Feeding.
Class-room 2 hours, field or laboratory 2 hours (3 credits); one semester.

V. Diseases of Farm Animals. Elective. Common diseases of farm animals. The subject includes wounds and their treatment, examination of animals for diseases, diagnosis and treatment of diseases. Practice in castration, spaying, and caponizing. Instruction in obstetrics, care of mother at parturition and diseases affecting mother and offspring. Microscope studies in the laboratory are made of the organisms and parasites associated with diseases. Sanitation, and other measures necessary for the prevention of diseases. Prerequisites: Animal Husbandry B and I.

Mayo: Diseases of Farm Animals.
Class-room 2 hours, field 2 hours (3 credits); one semester.

VI. Meats. Killing, dressing, and curing of beef, pork, mutton, and poultry. Prerequisites: Animal Husbandry B and I.

Lectures, supplemented with bulletins.
Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

VII. Poultry Breeding. Breeds of poultry, native and foreign. Principles of breeding and judging poultry.

Prerequisite: Biology I and IIb.
Class-room 2 hours, field 2 hours (3 credits); one semester.

VIII. Records and Pedigrees. Methods of recording the breeding of farm animals, the value of pedigreed stock, and a comparison and study of the pedigrees of notable animals of the various breeds.

Texts: Herd Books and references.
Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

IX. Hogs. The principles governing the raising of market hogs with special attention to types of hogs, prevention of disease, selection and care of breeding stock, feeding, etc.

Day: Productive Swine Husbandry.
Class-room 2 hours, practical work 2 hours (3 credits); one semester.

Farm Crops

A. Garden and Orchard Crops. An introduction to the practical work of growing crops, including cereals, grasses, garden and orchard crops. Special emphasis is given to gardening and each student is required to maintain in cultivation a piece of ground which is assigned to him.

Hunt and Burkett: Soils and Crops
Class-room 3 hours, field 4 hours (5 credits); one semester.

I. Cereals, Grasses and Fiber Crops. A study of cereals, grasses and fiber crops adapted to this region. These plants will be considered from the point of view of grain, forage and fiber production.

Class-room 2 hours, field work 2 hours (3 credits); one semester.

Farm Equipment

I. Field Equipment. The mechanical principles of different types of farm machinery, and the proper adjustment and operation of machinery in the field.

Davidson and Chase: Farm Machinery and Farm Motors.
Class-room 1 hour, field and laboratory 2 hours (2 credits); one semester.

II. Stationary Equipment. Elective. Special attention to stationary machinery, such as grinding, milling, and pumping machinery, and engines. The construction of farm machinery, and the grinding and repairing of tools is taken up in the laboratory. Prerequisite: Farm Equipment I.

Ramsower: Equipment for the Farm and Farmstead.
Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

Farm Experience

A first hand knowledge of farm conditions and farm work is essential to the development of the fullest efficiency of those intending to do work along agricultural lines. For this reason a minimum of two months of actual farm experience is required of all agricultural students qualifying for a college degree. This work should be carried out during vacation periods and must be completed before the student registers for his senior year. For those qualifying for a junior certificate in agriculture, one month of such work, completed before the student registers for his sophomore year, is required.

(6 credits toward college graduation. 3 credits toward junior certificate.)

Farm Management

I. General Management. The purpose of this course is to assemble and correlate the principles involved in the agricultural courses taught in the institution, paying special attention to types of farming, labor questions and farm accounting. Practical experience is secured by assisting in the management of the college farm and livestock.

Class-room 2 hours; practical work 3 hours; (3 credits) one semester.

II. Marketing. Factors essential to successful marketing of all kinds of farm produce. The value of refrigerator cars and ships, cold storage, proper packing for transportation, etc. Practical experience is secured in marketing the college farm products.

Class-room 2 hours, practical work 2 hours, (3 credits) one semester.

Forestry

I. Dendrology. A study of trees and shrubs in the vicinity of the college with a view to identification under fall and winter conditions. Students other than those studying agriculture will find this a useful course.

Class-room 1 hour, field 2 hours, (3 credits) one semester.

II. Forest Practice. Propagation of forest trees; nursery methods and practices; the cultivation and care of trees in farm wood-lots. The composition and location of wind breaks. Forest protection, etc. Bulletins and reference reading.

Class-room 2 hours, field 2 hours, (3 credits) one semester.

Horticulture

The courses in horticulture are so arranged as to give the student instruction in growing and marketing vegetables, flowers and fruits. A wealth of illustrative material for the classes in horticulture is found in the large collection of foreign and native species growing upon the College campus, in the lychee and citrus orchards to the south of the College, in the extensive vegetable gardens close at hand, and in the commercial flower gardens at Fati. Each student is required to maintain a garden of his own where he can put into practice the ideas received. Farm Crops A serves as an introduction to the courses in horticulture. In this course the student practices propagation from seed and cuttings and learns the varied requirements of different garden crops.

I. FLORICULTURE. A practical course in flower gardening. The aim of the course is to train students in the selection and care of flowers and plants for the home and garden. Methods of propagating, potting and planting are taught in the laboratory. Students other than those studying agriculture may elect this course.

Class-room 1 hour, garden work 2 hours (2 credits); one semester.

II. LANDSCAPE GARDENING. This course gives to the student an idea of some of the requirements for beautifying homes and parks by the proper planting of flowers, trees and shrubs. The various characteristics of plants are studied, with their grouping. Students are given some practice with the transit and level in the laying out of walks, etc. Planting plans are required in field work.

WAUGH: Landscape Gardening.

Class-room 1 hour, field work 2 hours (2 credits); one semester.

III. GARDEN AND ORCHARD MANAGEMENT. The problems and possibilities of the market garden, the necessary equipment, soil requirements and sanitary methods of fertilization. Methods of starting early fall vegetables and flowers by protecting the seedlings from the intense heat of late summer form a prominent place in the course. Systems of cropping; methods of tilling; irrigating; grading, packing and marketing. Bulletins and reference work.

WATTS: Vegetable Gardening.

Class-room 1 hour, field work 4 hours (3 credits); one semester.

IV. PLANT PROPAGATION. The natural and cultural methods of propagation; seeds; seed testing and seed growing; the production of seedlings for stock; grafting, budding and layering; the making of cuttings; special requirements for propagating and growing commercial fruits and ornamental trees and shrubs.

KAINS: Plant Propagation, Greenhouse and Nursery Practice.

V. FRUIT CULTURE. Elective. A more specialized course in fruit growing, with special reference to the lychee and lungan, the citrus fruits and the papaya. An analytical study of the Sapindaceae and Rutaceae families of plants is conducted with the object of enabling the student to classify properly the fruits of these families, and of showing the student the possibilities of using the near and wild relatives of these fruits in propagating and hybridizing. A study of varieties is included. Low-land fruit culture as practised in the delta regions of Kwangtung compared to hill culture as practised in the United States.

Class-room 1 hour, field work 4 hours (3 credits); one semester.

VI. CANNING. A practical course in the canning of garden and orchard products.

Bulletins and reference work.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

VII. SEED GROWING AND NURSERY PRACTICE. This course is designed to acquaint the student with the problems connected with the growing and sale of carefully selected seeds and plants. The significance of the development of this work in China is treated with special emphasis.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

Irrigation and Drainage

I. Irrigation water supply; construction of canals, reservoirs and ponds; pipe lines. Methods of applying water to various crops. Drainage, rainfall and evaporation; advantage and methods of draining retentive soils. Farm mechanics. Pumps, devices and appliances used in irrigating; making tile drains, etc. Map drawing of farm layouts. Farming.

WILCOX: Irrigation Farming.
MILES: Land Drainage.

Class-room 2 hours, field work 2 hours (3 credits); one semester.

Plant and Animal Breeding

I. Principles of Selection and Breeding. The dependence of man upon domesticated animals and cultivated plants; the origin of domesticated animals from the wild; effect of natural selection; unit characters; variability of single characters; transmission of characters; heredity and environment; systematic improvement of animals and plants. The student is urged to devote his attention in the field to either plants or animals. The work on the papaya and rice being carried out on the campus offers ideal facilities in plant breeding, and the work with hogs, poultry and cattle affords similar opportunity.

Davenport: Domesticated Plants and Animals, supplemented by bulletins.
Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

Soils

I. Soil Physics. Microscopic study of soil particles, taking soil samples; determination of capillary moisture; influence of color on soil temperature; variation of soil temperature at different depths; the absorption of heat by soils; the effect of lime upon soil; determination of the weight of soil per acre; effect of humus on the water-holding capacity of soils; rate of rise of capillary water from soils; the effect of organic matter on the baking of soil. Mechanical analysis of soils.

Stephenson and Schaub: Soil Physics Laboratory Guide.
Class-room 2 hours, laboratory 4 hours (4 credits); one semester.

II. Soil Fertility. The study of food combinations of plants; the effect of different crops and different systems of farming upon the depletion of soil fertility; the proper methods of handling, preserving, and applying barnyard manure and night soil; the determination of the needs of soil for commercial fertilizers and the kind of fertilizers to apply. Prerequisities: Chemistry IV and Soils I.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

BIOLOGY

Professor C. W. Howard; Mr. J. F. Karcher.

THE BIOLOGICAL DEPARTMENT is well equipped with microscopes and other instruments necessary for work in all lines of botany and zoology. A good herbarium and working collections of the local fauna are also accessible to the students.

I. General Biology. The fundamental principles of biology. This course is intended as a foundation for future work in biology and for those who wish to have a general knowledge of the subject but will not pursue it further. Extra attention given to students who intend to specialize in any phase of biological work. Prescribed for all students in the Freshman year.

Needham: General Biology.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

IIa. Botany. Structure of plants and general function of plant organs. Classification of the plants of South China. Field work is emphasized. Prescribed for all students in the Natural Science and Agricultural Groups. Prerequisite: Biology I, or registration in Biology I at the same time.

Ganong: General Biology.
Lectures 2 hours, laboratory2 hours (3 credits); one semester.

IIb. Zoology. Comparative study of the various forms of animal life; collection, preparation and classification of local fauna. Prescribed for all students in the Natural Science and Agricultural Groups.

Galloway: Zoology.
Lectures 2 hours, field and laboratory 2 hours (2 credits); one semester.

III. Economic Entomology. A consideration of harmful and beneficial insects and other Arthropods, as related to both crops and animals. Prerequisite: Biology I, IIa and IIb.

Folsom: Entomology.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

IV. Physiology. Physiology of the human body. Prerequisite: Biology I, IIa and IIb.

Stiles: Human Physiology.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

V. HYGIENE. Personal, domestic and civic hygiene. Prerequisite: Biology I, IIa and IIb.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

VI. PLANT PHYSIOLOGY. Lectures and readings on the growth, nutrition, irritability, reproduction and variation of plants, combined with laboratory work. Prerequisite: Biology I and IIa.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

VII. SERICULTURE. The methods of producing silk in China and other countries. A study of the silk worm, its morphology, life history, diseases, and enemies. Prerequisite: Biology I, IIa and IIb.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

VIII. AGRICULTURAL BACTERIOLOGY. The nature of bacteria; fermentation; relation of bacteria to the origin of soil. The transformation of carbon and nitrogen; the manure heap and sewage; reclaiming lost nitrogen; relation of bacteria to the dairy and its products; relation of bacteria to miscellaneous farm products; parasitic bacteria.

CONN: Agricultural Bacteriology.

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

X. PARASITOLOGY. A study of parasitism and of the animal forms which cause parasitic diseases of man and domestic animals. Prerequisite: Biology I and II.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

XIa. and XIb. COMPARATIVE MORPHOLOGY AND PHYSIOLOGY. A comparative study of the anatomy and physiology of the important groups of invertebrate and vertebrate animals. Designed especially for premedical students but open to others. Prerequisites: Biology I and II.

First semester, lectures 3 hours, laboratory 6 hours; (6 credits).
Second semester, lectures 2 hours, laboratory 4 hours; (4 credits).

XII. HEREDITY AND EVOLUTION. The theories of evolution and the laws of heredity with their practical application. Prerequisite: Biology I.

3 credits; one semester.

XIIIa and XIIIb. PROBLEMS IN BIOLOGY. Individual research work for advanced students under the supervision of an instructor. Prerequisite: Biology I, IIa, IIb and III.

3 to 5 credits; two semesters.

SERICULTURE. At the request of the International Committee for the Improvement of Sericulture in Kwangtung, the College has undertaken to cooperate with them in giving instruction in sericulture. This will involve courses open to college students and also a short summer course of one month for village men engaged in the production of silk. Besides this the College has undertaken to cooperate in the production of disease-free eggs for distribution to the farmers through the International Committee and also in experimental work leading to the improvement of the mulberry and its culture and of the silk of South China.

Credit subject to special arrangement.

BUSINESS ADMINISTRATION*

PROFESSOR ———

Courses A and B are open to college students for three college credits each.

A. ELEMENTARY BUSINESS. This course aims to give a general knowledge of the principal business and commercial practices. An introductory study of the money, weights and measures of China, instruments of commercial credit, general office forms and practice, shipping, banking, insurance, etc.

COMMERCIAL PRESS, LTD., Publishers: Commercial Knowledge.

4 hours; one semester.

B. ELEMENTARY BUSINESS continued. Simple book-keeping, business correspondence, elementary corporation finance.

KLEIN: Book-keeping and Accounting (An Introductory Course).

4 hours; one semester.

I. BUSINESS ORGANIZATION AND OPERATION. A study of modern enterprise as organized in the single proprietorship, the partnership, the joint stock, and the corporate forms.

HANEY: Business Organization and Combination. 3 hours; one semester.

*Attention is called to the M. T. Tang Scholarship in Business Administration and to the Seattle Vocational Sholarships, described on page 32.

II. Industrial and Commercial Geography. A survey of the industries and products of the various countries of the world.

Smith: Industrial and Commercial Geography. 3 hours; one semester.

III. History of Commerce. Growth of industry and commerce from ancient times to the present day. The industrial and economic life of the Greeks, Romans, and ancient Chinese; the feudal systems, the factory systems, and the industrial revolution; expansion of modern commerce; commercial transformation in the Far East.

Herrick: History of Commerce. 3 hours; one semester.

IV. International Trade and the Tariff. Principles of foreign exchange, with special attention to China. Recent tariff revision. Study of trade reports and statistics of China.

Bastable: The Theory of International Trade.

Chu: The Tariff Problem in China. 3 hours; one semester.

V. Corporation Finance. The organizing, managing and financing of a corporation; means by which consolidations and reorganizations may be effected. Prerequisite: Economics Ia and Ib.

Mead: Corporation Finance. 3 hours; one semester.

VI. Advertising. Methods of effective advertising. Comparison of Chinese and foreign advertising methods.

Hess: Productive Advertising. 3 hours; one semester.

VIIa and VIIb. Accountancy. Principles of debit and credit, the keeping of single and double entry books; preparation of balance sheets; loss and gain statements; closing of the ledger. The second semester is devoted to cost accounting. Open only to students of the rank of Juniors or above.

Ross: Bookeeping and Accounting. 4 hours; two semesters.

VIIIa and VIIIb. Business English and Correspondence. A consideration of the English of advertising; writing and editing copy; preparation of periodical advertisements, booklets and form letters; business correspondence and trade cultivation; filing and office systems.

Davis and Lingham: Business English and Correspondence. 3 hours; two semesters.

CHEMISTRY

Professor C. N. Laird; Mr. Chiu Yan Tsz

THREE ROOMS, approximately 1500 square feet in area, are occupied by the department of Chemistry. One room, seating sixty, equipped as a lecture room, is also used for recitations, another room accommodates fifty-six students in general chemistry, working in three sections, and the third has desks for twelve students in analytical and organic chemistry. Each desk is equipped with running water and (gasoline) gas. The equipment includes both apparatus for demonstration purposes and all the materials and supplies needed for each student to perform the experiments in the courses in general inorganic, analytical, organic and agricultural chemistry.

South China is rich in materials available for many chemical industries. Some of these are already being made use of, but processes are generally simple and often crude. A four-year course in chemistry is now offered, aiming to train men to be able to enlarge the development of these resources, especially those of a non-metallurgical character. A number of industrial processes will be put in operation on a small scale in connection with this course, and plans have been made to have at least one of these in actual use before the end of the academic year 1920-21.

In addition to several hundred well selected books, files and current numbers of the *American Chemical Journal*, *Journal of the American Chemical Society*, *Chemical Abstracts*, *Journal of Industrial and Engineering Chemistry*, *Chemical and Metallurgical Engineering*, *Journal of the Franklin Institute*, *Journal of the American Ceramic Society*, *Journal of Physical Chemistry*, *Journal of Biological Chemistry*, *Biochemical Journal*, *Journal of the Chemical Society* (London), *Journal of the Society of Chemical Industry*, *Transactions of American Electro-chemical Society*, and *Science* (China) are available. In some cases the files are complete, in a few others complete since 1900.

Ia and Ib. GENERAL INORGANIC CHEMISTRY. The work covers only the ordinary non-metallic (first semester) and metallic (second semester) elements and their compounds, but a thorough knowledge of them is required. The quantitative laws of chemical combination and the principles of chemical equilibrum are mastered, and the habit formed of continually applying these principles to all chemical, including ionic, reactions. Perequisites: Physics A and B. Laboratory fee: $20.00.

ALEX. SMITH: General Chemistry for Colleges.
ALEX. SMITH: A Laboratory Outline of College Chemistry.
Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

IIa and IIb. QUALITATIVE ANALYSIS. A course in the theory and practice of inorganic qualitative analysis to develop habits of chemical reasoning along modern theoretical lines and correct laboratory technique. Prerequisite: Chemistry I. Physics I should precede or accompany this course. Laboratory fee: $20.00

STIEGLITZ: Qualitative Chemical Analysis, Vol. I.
A. A. Noyes: Qualitativ Chemical Analysis.
Class-room { 2 hours, first semester, / 1 hour, second semester, } , laboratory 6 hours, (9 credits for a year); two semesters.

IIIa and IIIb. QUANTITATIVE ANALYSIS. Theory of quantitative separations with discussion of laboratory methods and chemical calculations. Typical methods of gravimetric and volumetric analysis used. Prerequisites: Chemistry II and Physics I. Laboratory fee: $20.00.

BLASDALE: Principles of Quantitative Chemical Analysis.
Class-room 1 hour, laboratory 6 hours, (4 credits); two semesters.

IV. ANALYTICAL CHEMISTRY. Short course for Agricultural and Pre-medical students. Lectures on theory of analytical chemistry and training in laboratory methods. Mostly qualitative analysis, but five weeks are spent on preparation and use of standard solutions and simple gravimetric determinations. Prerequisite: Chemistry I. Laboratory fee: $15.00.

A. A. NOYES: Qualitativ Chemical Analysis.
Class-room 2 hours, laboratory 9 hours, (6 credits); one semester.

Va and Vb. PHYSICAL CHEMISTRY. Discussion of equilibrium reactions in gases, thermodynamics, Phase Rule, theories of solutions, and colloid chemistry. Prerequisites: Chemistry III, Mathematics V. Laboratory fee. $10.00. *Not offered in 1920-21.*

Class-room 2 hours, laboratory 3 hours (7 credits for the year); two semesters.

VI. ELEMENTARY ORGANIC CHEMISTRY. Short course for Agricultural and Pre-medical students. Survey of the characteristics and relationships of the more important members of the alipathic series followed by a briefer treatment of the aromatic series. Relation of organic chemistry to medicine, pharmacy and agriculture is emphasized. Prerequisite: Chemistry IV. Laboratory fee: $15.00.

MOORE: Outlines of Organic Chemistry.
Class-room 3 hours, laboratory 9 hours (7 credits); one semester.

VIIa and VIIb. ORGANIC CHEMISTRY. Broad survey of most important compounds of both the alipathic and aromatic series. Reference made to local materials and industrial applications whenever possible. Preparation of typical organic compounds and recognition of important radicals in the laboratory. Prerequisites: Chemistry II and Physics I. Laboratory fee: $30.00. *Not offered in 1920-21.*

H. T. CLARKE: Introduction to the Study of Organic Chemistry.
W. A. NOYES: Organic Chemistry for the Laboratory.
Class-room 3 hours, laboratory 9 hours (15 credits for the year); two semesters.

VIII. ADVANCED ORGANIC SYNTHESIS. Prerequisite: Chemistry VII. Laboratory fee: $10.00. *Not offered in 1920-21.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

IX. ANALYTICAL ORGANIC CHEMISTRY. Technical methods of analysis, with special reference to soap, oils, and other local products. Prerequisite: Chemistry VII. Laboratory fee: $10.00. *Not offered in 1920-21.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

X. FOOD ANALYSIS. Analysis of typical Chinese food-stuffs. Prerequisite: Chemistry VII. Open to agricultural students who have had Chemistry VI. Laboratory fee: $10.00.

WOODMAN: Food Analysis.
Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

XIa and XIb. Industrial Chemistry. Lectures on general methods of applied chemistry, with special reference to local conditions and the development of Chinese industries. Laboratory work includes use of typical industrial processes on a small scale, and inspection of plants in South China. Prerequisite: Chemistry VII. Laboratory fee: $25.00. *Not offered in 1920-21.*

Class-room 3 hours, laboratory { 9 hours first semester, / 6 hours second semester }, (13 credits for the year); two semesters.

XII. Special Problems in Industrial Chemistry. Each Senior in industrial chemistry will be assigned a problem, such as the analysis and study of an important local raw material or the design of a small vegetable oil plant, on which a report will be made. Library work, conferences, etc. Prerequisite: Chemistry XIa. Laboratory fee: $10.00. *Not offered in 1920-21.*

Laboratory 6 hours (3 credits); one semester.

XIII. Elementary Agricultural Chemistry. An introductory course in general chemistry, for students in the two year agricultural course only, using substances important in agriculture as illustrations of the fundamental principles. Laboratory fee: $10.00.

McPherson and Henderson: First Course in Chemistry.
Peters: Preparation of Substances Important in Agriculture.

Class-room 2 hours, laboratory 6 hours (5 credits); one semester.

XIV. Agricultural Chemistry. Treated chiefly from the organic and bio-chemical side. Factors which influence the composition and feeding value of crops; crop rotation; chemistry of plants and animals; chemical analysis of soils, fertilizers and farm products. Prerequisites: Chemistry IV and VI. Laboratory fee: $10.00.

Stoddart: Chemistry of Agriculture.

Class-room 2 hours, laboratory 4 hours (4 credits); one semester.

CHINESE

Professor Chan Tsap Ng; Associate Professor Chan Chung Wai; Mr. Chan Tak Wan

A and B. Chinese Composition (國文). Required of all Subfreshmen.

Commercial Press, Ltd.: Middle School Kwok Man (國文). Book 4.

2 hours; two semesters.

C. Chinese Classics (論孟).

2 hours; two semesters

D. Modern Ethical Literature (先儒語錄).

2 hours; one semester.

All College courses in Chinese for Freshmen and above are optional excepting A to VIII or its substitutes. Three groups of studies are offered: Chinese Philosophy, Chinese Literature, and Chinese Historical Research. Students may elect the course they desire to pursue, but in general will follow one group through. No course will be opened unless the number electing in the group is enough to warrant it. The order in which the semester courses are given will be modified to meet the requirements of the students.

Chinese Philosophy (中國哲學)

The aim of these courses is to familiarize the student with the different types of ancient and recent philosophical and ethical concepts with a view to aiding him to a better knowledge of the rules of conduct and ideals of life.

I and II. Ancient Philosophy (古代哲學). Lectures, discussions and reports.

2 hours; two semester courses.

III and IV. Modern Philosophy (近代哲學). Lectures, discussions and reports. Open, by permission of the teacher in charge, only to those whose preparation in Chinese Composition (courses A and B) is considered adequate.

2 hours; two semester courses.

Chinese Literature (中國文學)

Ia and Ib. Chinese Characters (文字學). A study of the philology and linguistics of the Chinese characters, both ancient and modern. This course will prepare students to do research work in the field of Chinese antiquity and also will prove valuable to the student who intends to study the new types of Chinese literature for the layman. Lectures, discussions, practical work.

2 hours ; one year course.

IIa and IIb. Chinese Prose Writings (文詞學). Lectures, discussions and reports.

2 hours; one year course.

IIIa and IIIb. Versification (詩詞學). The different types and forms of Chinese poetry, drama, etc., both ancient and modern, are critically studied. In this course the student will endeavor to make improvements on the current forms of hymns, songs, and histrionic productions for the sake of popular education. Lectures, discussions and practical work. Permission of the teacher in charge, based upon sufficient preparation in Chinese Composition (courses A and B) is necessary for a student electing this course.

2 hours; one year course.

IV. History of Literature (文學史). Lectures, discussions, and reports.

2 hours; one semester.

V. Chinese Public Documents (公牘). A study of the various forms of public documents, and practice in preparing material in the most approved business and documentary styles.

2 hours; one semester.

Chinese Historical Research (中國歷史)

Ia and Ib. Archæology (古物學). The purpose of this course is the study and the preservation of the historical objects, places and monuments of China, including ancient ceramics, paintings, bronzes, coins, gems and all branches of paleography and antiquity. This course, it is hoped, will serve as a step toward the formation of archæological museums and societies. Lectures, discussions, reports, travelling, and making of collections.

2 hours; one year course.

II. History of Chinese Rites, Customs, Ceremonies and Etiquette (禮俗史). This is an historical and critical study of the Chinese principles and rules of of propriety and social order. Lectures, discussions and reports.

2 hours; one semester.

III. Legal and Political History of China (法制史). A general survey of the legal and political aspects of China's history and development.

2 hours; one semester.

IV. History of Chinese Immigration into Foreign Countries (華僑史). This is an historical and statistical study of the conditions of Chinese abroad. Reports will be gathered for the guidance of Chinese going to and returning from foreign lands. This course prepares the way for the establishment of an information bureau for Chinese emigrants. Lectures and reports.

2 hours; one semester.

V. Religious History of China (宗教史). A study of the religious life and thought in the history of China.

2 hours; one semester.

COMPOSITION IN CHINESE

Mr._____

A to VIII. Prescribed for all students in the College throughout the five years from Sub-freshman to Senior. This is not a course in Chinese classics and literature. The aim of the course is to guide and encourage the student to make use of the knowledge which he has acquired through the medium of the English language by expressing it in Chinese. This is so essential in the preparation of the increasing number of men who are looking forward to teaching in grammar and middle schools, that its importance must be emphasized. Students taking this course are required to translate English works into modern and idiomatic Chinese. Opportunity is afforded for collateral reading of books already translated by acknowledged authorities and for informal class discussions. In addition to

the regular class-room work, students are encouraged to collect material in English and prepare in Chinese talks and addresses on topics of general interest to be delivered in the class-room and elsewhere, as occasions offer in connection with the extension work of the College. Students find expression for their best translated and original productions through the Canton Christian College quarterly magazine, *Ling Naam. Not given in 1920-21. Consult advisor for required substitutes.*

2 hours; every semester.

ECONOMICS

PROFESSOR K. DUNCAN; MR._____

THE COURSES in Economics are in close correlation with those in Business Administration and Agriculture, and attention is called to courses of economic interest under those headings. The college and private libraries on the campus furnish a large amount of well-selected material for economic study. Files and current numbers of *American Economic Review, Economic Journal, Annals of the American Academy, Journal of Political Economy, Chinese Social and Political Science Review, Trans-Pacific, Quarterly Publications of the American Statistical Association* and other economic and financial periodicals are available. In the case of the publications of the AMERICAN ECONOMIC ASSOCIATION the files are complete. The near-by cities of Canton and Hongkong afford unusual opportunities for studies of modern economic problems.

Ia and Ib. GENENAL ECONOMICS.. Prerequisite for other more advanced courses in Economics. Economic theory and a general survey of the economic world. During the second semester, as time permits, there is a brief study of the single tax, socialism in its economic aspects, money and currency, large scale production, and public finance. The class meets for one lecture a week and in small sections for quiz work three times a week.

DUNCAN: Essentials of Economics.
DUNCAN: Exercises in Elementary Economics.
Reference readings in MARSHALL, WRIGHT AND FIELD: Materials for the Study of Elementary Economics.

4 hours; two semesters.

IIa and IIb. AGRICULTURAL ECONOMICS. A brief introduction to elementary economic theory, followed by a study of some problems of agriculture in their economic aspects, emphasizing conditions in China. Some topics considered are: the statistics of the world's agricultural geography, resources, products and trade; crop yields and prices; agricultural enterprise and farm organization; standardization of agricultural products; co-operative associations; markets and marketing methods; farm incomes and farm cost accounting; land tenure; rural credit; colonization projects; agricultural legislation and agrarian policies. Agricultural students enroll in this course instead of Ia and Ib.

TAYLOR: Agricultural Economics, and syllabi.
Readings in NOURSE: Agricultural Economics, and other source materials.

3 hours; two semesters.

III. CONSERVATION OF ECONOMIC RESOURCES. A survey of the natural resources and products of China of economic significance and an examination of the policies of conservation and control. General principles of conservation; economic aspects of scientific agriculture, food supply, scientific forestry, flood control, use of mineral wealth, and conservation of human resources. Syllabi, with assigned readings and reports. Open to Sophomores and above, Economics Ia and Ib not prerequisite.

ELY, HESS AND LEITH: Foundations of National Prosperity.

3 hours; one semester.

IV. HISTORY OF ECONOMIC THOUGHT. History of economic ideas and philosophy from ancient times to the present. The effect of changing social and industrial systems on economic ideas; the economic interpretation of history; the present economic order and programs of socio-economic reform. Influence of the European War on economic thought.

HANEY: History of Economic Thought.

3 hours; one semester.

V. PUBLIC FINANCE AND TAXATION. Study of the theory and history of governmental revenues and expenditures; taxation with special reference to the general property, inheritance, and income taxes; customs and transit duties; local and general taxation in China; financial administration; war finance and other problems of extraordinary finance.

PLEHN: Introduction to Public Finance.
SELIGMAN: Essays in Taxation, 8th ed.

3 hours; one semester.

VI. Money and Banking. Principles of money and currency; functions and operation of a modern bank. Monetary reform in China. Students have an opportunity for practical study and experience in banking in the College Bank. Outlines, with assigned readings.

Moulton: Money and Banking.

3 hours; one semester.

VII. Insurance. Principles and methods of insurance, its history, problems and law. Special attention to life insurance, with an elementary consideration of the fundamental mathematics of actuarial science, and to fire insurance as an example of property insurance. Brief survey of the scope and development of social insurance. Insurance carriers; state insurance; insurance statistics; insurance in China.

Gephart: Principles of Insurance, vol. I (Life) and vol. II (Fire).

3 hours; one semester.

VIII. Monopoly and Modern Combination. The theory of monopoly; the origin and development of modern capitalistic business and large scale production; labor combinations; public regulation of monopolistic control, and a critical examination of various remedies proposed.

Jenks: The Trust Problem, 4th ed.
Durand: The Trust Problem.

3 hours; one semester.

IX. Statistics. Elementary principles of the statistical method; the collection, presentation and interpretation of statistical data. Special attention to the various types of indices, averages and coefficients and their proper uses, and to graphic and diagrammatic methods of presenting economic and social statistics. Primarily for advanced students expecting to do research work in economics, business administration, educational measurements, and genetics. Open only to Junior and Senior students, and others by special permission of the instructor.

King: The Elements of Statistical Method.
King: Exercises in Statistical Method.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

EDUCATION

Professor H. B. Graybill; Mr. J. N. Keys;

Lecturer: Mr. C. G. Fuson.

A. Education as Related to China's National Needs. For Sub-Freshmen; but open to higher students for college credit under certain conditions. A general view of the social problems confronting China to-day, and the type of educational system required to meet the situation. Consideration is given such subjects as training for citizenship, country schools and agricultural development, specialized commercial, technical and professional training, and the higher institutions for the preparation of social and spiritual leaders.

3 hours; first semester.

B. The Problems of Popular Education for China. Open to Sub-Freshmen and others as course A. This course takes up separately the village and the city school, considering for each the questions of support, management, staff, methods equipment and supervision, with special attention to the functions of the teacher in both school and community.

3 hours; second semester.

I. Theory and Practice of Higher Elementary School Teaching and Management for Chinese Schools. A study of the aims of the school and nature of the child, with direct application to lesson planning and the various types of class-room procedure and control. Advantage will be takes of the opportunities for observation in the various primary schools on the campus and in Canton.

3 hours; first semester.

II. Theory and Practice of Higher Elementary School Teaching and Management for Chinese Schools, continued. The application of the above principles to special method sin the various subjects: Chinese, Geography, History, Arithmetic, Agriculture, Handwork, Religion, etc.

3 hours; second semester.

III. Theory and Practice of Middle School Teaching and Management for Chinese Schools. A study of the aims of education for adolescent youth, moral and civic training, discipline, Boy Scouts, military and student organizations, vocational guidance, courses of study, etc.

3 hours; first semester.

IV. Subject Matter and Special Methods for Courses in Chinese Middle Schools. A detailed treatment of the separate subjects: English, Chinese, mathematics, science, history, geography, and vocational courses.

3 hours; second semester.

V and VI. Elementary School Supervision. A more advanced treatment of child psychology and hygiene, and the problems of elementary school organization, equipment, administration and supervision, including courses, texts, and teacher training. Prerequisites: Education I and II.

3 hours; one or two semesters.

VII and VIII. Middle School Administration. This course deals with the practical problems involved in the organization and conduct of secondary schools: financing, supervision, connections; office management and records; courses, texts, syllabi, standards, tests; health and discipline, physical and military training; coeducation; social service, and religious and moral guidance. Prerequisites: Education III and IV.

3 hours; one or two semesters.

IX and X. Practice Teaching. Students in Education courses above the Sub-Freshmen may gain one credit for two hours or two credits for four hours a week during each semester of practice teaching, provided this is done under the supervision of the instructor and is of a grade which meets his approval. A certain amount of collateral reading is expected and a report required upon the actual conduct of the course taught.

ENGLISH

Professor L. D. Loshe;

Associate Professor J. C. Griggs; Mr._____

A and B. Sub-freshman English. Prescribed for all Sub-freshmen. The aim of this course is clear, simple and logical expression, preparing the student to use English more freely in his other courses as well as to continue the study of the language itself. Composition. with emphasis on the principles of structure in the sentence and paragraph, and reading of texts sufficiently varied to develop the student's vocabulary.

Lomer and Ashmun: The Study and Practice of Writing English.
Smith: Short Stories, Old and New (Ginn).
Guitteau: Preparing for Citizenship (Houghton Mifflin).
Lowell: Vision of Sir Launfal, edited by Davidson (Houghton Mifflin).
George Eliot: Silas Marner (Ginn).
Scott: Ivanhoe, Abridged (Longmans Class-Books of English Literature), or
Shakespeare: Julius Cæsar, Hudson Edition (Ginn).
Burroughs: Afoot and Afloat (Houghton Mifflin).

5 hours; two semesters.

C and D. Supplementary English for Sub-freshmen. A course designed to supplement courses A and B, and prescribed for certain students on recommendation of the instructor of English A or B.

Tseu Yih-zan: Hints on English Composition.

2 hours; two semesters.

Ia and Ib. English Composition. Prescribed for all Freshmen, except those in the Agricultural Group. Study of composition and style with emphasis on the relation between clear thinking and clear writing. While the work of the course is chiefly in composition, there are regular assignments of reading intending to illustrate the principles studied as well as to give practice in reading. Rhetoric, reading themes, and conferences.

Genung and Hanson: Outlines of Composition and Rhetoric (Ginn).
Burke: Speech on Conciliation with America, edited by Lamont (Standard English Classics; Ginn).
Tennyson: Idylls of the King, edited by Boughton (Ginn), or
Arnold: Sohrab and Rustum, edited by Trent and Brewster (Ginn).
Webster: First Bunker Hill Oration, edited by Gaston (Ginn).
Campbell and Rice: A Book of Narratives (Heath).

4 hours; two semesters.

IIa and IIb. ENGLISH COMPOSITION FOR AGRICULTURAL STUDENTS. Prescribed for Freshmen in the Agricultural Group. A simple course in composition with themes on subjects taken from the practical work and the texts of the courses in agriculture.

1 hour; two semesters.

IIIa and IIIb. READING COURSE IN MODERN ENGLISH. The aim of this course is to familiarize the student with the idiom and vocabulary of modern periodicals and to give him some idea of the scope and content of the leading weekly and monthly magazines.

2 hours; two semesters.

IVa and IVb. MATERIALS OF MODERN LITERATURE. In a very simple and elementary form this course makes an approach to the methods of comparative literature. It takes up the great common sources of material: the most important of the classical stories, the Norse stories, the Roland stories and the Arthurian stories. After studying the original outline and significance of the stories the student is shown some of the modern developments of the material. Lectures, assigned reading and papers.

3 hours; two semesters.

Va and Vb. INTRODUCTION TO ENGLISH LITERATURE. Open to students who have taken English III or English VII, or by permission of the instructor. This brief outline is intended to furnish a background for the study of special types of literature and a point of departure for the study of special periods. Lectures, assigned reading and the preparation of papers and reports.

3 hours; two semesters.

VIa and VIb. MODERN PLAYS AND PLAYWRITING. Reading and discussion of recent plays of importance, with study of the principles and methods of playwriting, and with practice in writing plays.

3 hours; two semesters.

VIIa and VIIb. ENGLISH PROSE FICTION. While giving the student practice in rapid reading this course discusses some of the problems of material and method in the short story and the novel. Reading of works of Dickens, Stevenson, and modern novelists, with lectures, discussions and papers based on the reading. Open to all students who have satisfied the requirements in English A and B.

3 hours; two semesters.

IXa and IXb. MODERN PROSE AND POETRY. Reading and discussion of some of the chief works of contemporary writers, especially in fiction and the drama. Open to students who have taken English III or VII, or to other students by permission of the instructor.

3 hours; two semesters.

XIa and XIb. RHETORIC. This course in the forms and methods of writing has a two-fold aim—to develop the student's powers of self-expression and to enable him to read with understanding of the author's methods and with enjoyment of literary art. Supplementary readings. Open to Sophomores and above who have received a grade of 85 or better in English I, or by permission of the instructor.

2 hours; two semesters.

XIIIa and XIIIb. ENGLISH LITERATURE FROM 1830 TO 1890. A study of the literature of this period with special attention to the great poets of the Victorian period.

3 hours; two semesters.

XVa and XVb. JOURNALISM. A brief study of the value, organization and operation of the daily, weekly and monthly press; study and practice in collecting, writing, editing, and publishing news, articles, and editorials. Prerequisite: 15 credits in English.

2 hours; two semesters.

XIX. TEACHING OF ENGLISH. A study of the best methods of teaching English and of the best content for the English course in schools in China, with a review of phonetics, grammar, composition, reading, etc.

3 hours; one semester.

FRENCH

Miss L. D. LOSHE

Ia and Ib. ELEMENTARY FRENCH. Study of the essentials of grammar and composition, with reading of simple texts and practice in composition.

CHARDEREL: First French Course.

5 hours; two semesters.

GEOLOGY

MR. D. L. COOK

I. COLLEGE GEOLOGY. An appreciation of the general principles underlying the structure and formation of the earth. Earth processes and earth history in relation to modern life and human activity; the formation of soil from different types of rock; elementary mineralogy.

CHAMBERLAIN AND SALISBURY: A College Text-Book of Geology.
Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

GERMAN

MR. H. L. CALDWELL

Ia. ELEMENTS OF GERMAN. Simple exercises and grammar. Reading of elementary stories and easy description with a view to enlarging the student's vocabulary and to increasing his ready use of the dictionary. Emphasis is placed on translation rather than conversation, the aim of the course being to furnish the student with an adequate basis for independent reading of scientific German.

HAM AND LEONARD: A Brief German Grammar.
BACON: Im Vaterland.
5 hours; one semester.

Ib. SCIENTIFIC GERMAN. Primarily for pre-medical students. Reading in German of not less than 300 pages of simple technical and scientific matter.
SCHOLZ: German Science Reader.
5 hours; one semester.

GOVERNMENT

PROFESSOR H. C. BROWNELL

I. POLITICAL SCIENCE. An elementary general survey of the theory of the state and the science of government.

GETTELL: Introduction to Political Science.
2 hours; one semester.

II. CONSTITUTIONAL GOVERNMENT. The theory of constitutional government, with a comparative study of the constitutions of Great Britain, The United States, France, Germany, Japan and China. Collateral reading and reports.

GOODNOW: Principles of Constitutional Government.
3 hours; one semester.

III. INTERNATIONAL LAW. General theory and content. Particular attention to the Orient. Study of China's foreign treaties, especially those concerning trade and commerce, loans and indemnities, and extra-territoriality. International law as modified by the European War.

LAWRENCE: The Principles of International Law.
LAWRENCE: Documents Illustrative of International Law.
MAYERS: Treaties of China with Foreign Nations.
3 hours; one semester.

GREEK

MR. _____

Ia and Ib. HELLENISTIC GREEK. Elementary course, primarily for pre-theological students. The grammar and simple exercises. Readings and translation from St. John's Gospel.

MOULTON: Introduction to New Testament Greek.
GREEN: Vocabulary of the New Testament.
NESTLE: Greek New Testament.
2 hours; two semesters.

IIa and IIb. HELLENISTIC GREEK. Second year course. Readings and translation from the New Testament. Same texts continued.
3 hours; two semesters.

HISTORY

PROFESSOR H. C. BROWNELL

A and B. ANCIENT AND MEDIÆVAL HSITORY TO THE PROTESTANT REVOLUTION. Assigned readings and essays.

ROBINSON AND BREASTED: Outlines of European History, Part I (Vol. I).
3 hours; two semesters.

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Ia and Ib. MODERN EUROPEAN HISTORY FROM THE PROTESTANT REVOLUTION TO THE PRESENT DAY. Assigned readings and essays.

ROBINSON AND BEARD: Outlines of European History, Part II (Vol. II), Revised Edition.

3 hours; two semesters.

IIa and IIb. THE NINETEENTH CENTURY. Presupposing both the preceding courses, this is a detailed study of particular phases of modern history—the Industrial Revolution, the American War of Independence, the expansion of America, Franchise and Social Reform in England, the Slavery Struggle in the United States, the development of German unity, Italian unity, etc. This course should enable the student to gain a correct idea of the present standing of the chief modern states and the reasons underlying it. Numerous assigned readings and reports. (*Offered in 1921-22*).

HAYES: The Political and Social History of Modern Europe, Vol. II.
HAZEN: Europe since 1815, and Fifty Years of Europe.

3 hours; two semesters.

IIIa and IIIb. THE FAR EASTERN COUNTRIES IN THE LAST CENTURY. This is first a study of 19th century China's relations with the West, and second of modern developments in China's Far Eastern neighbors. The rise of Japan is traced to show the reaction upon China and explain the present conflict of interests. The progress made in Siam, India and the Philippine Islands is discussed to make plain the essential needs of China and to indicate safe policies of reform. Lectures, assigned readings and reports based on such books as Williams' History of China; Morse's International Relations of the Chinese Empire; Li Ung Bing's Outlines of Chinese History; McLaren's Political History of Japan in the Meiji Era; Porter's Japan, the New World Power; Worcester's Philippines, Past and Present; Gibbon's New Map of Asia; Hyndman's The Awakening of Asia.

3 hours; two semesters.

IV. THE ENGLISH CONSTITUTION SINCE 1689. A study of the development of parliamentary government and the party system, with special emphasis on the problems of recent years. The evolution of self-governing dominions. Comparison with Continental and American systems for illustrative purposes only. Readings and seminar based on Taswell-Langmead, Maitland, Bagehot, Lowell,

Low, and others, with lectures on the last phases and the present system. Open to Juniors and Seniors.

3 hours; one semester.

V. THE HISTORY OF THE UNITED STATES SINCE 1850. An outline of political events and a closer study of social and economic developments with an explanation of America's entry into world politics and her present position as a world power. Assigned readings and lectures. Text for outline purposes: WEST: History of the American People, or MUZZEY: American History. Open to Sophomores, Juniors and Seniors.

3 hours; one semester.

LOGIC

PROFESSOR A. BAXTER

I. The aim of this course is to form and develop in the student the faculty of exact and critical thinking. It deals with the right use of words (description and definition), and with the theory of reasoning (the proposition, inference and proof). The principles of syllogistic reasoning are thoroughly studied and the student is trained in the use of inference, hypotheses, analogy, and other methods of scientific investigation and proof. Special attention paid to practical exercises throughout the course.

WELTON: Groundwork of Logic.

3 hours; two semesters.

MATHEMATICS

PROFESSOR W. E. MACDONALD

A. INTERMEDIATE ALGEBRA. Numerical and literal quadratic equations; irrational forms; theory of quadratic equations; surds; ratio; proportion; variation; logarithms; arithmetical, geometrical and harmonical progressions.

HAWKES-LUBY-TOUTON: Second Course in Algebra.

4 hours; one semester.

B. PLANE TRIGONOMETRY.

BAUER AND BROOKE: Plane and Spherical Trigonometry.

4 hours; one semester.

I. Solid Geometry. Solid geometry, including spherical geometry. This course presupposes plane geometry and a working knowledge of algebra through quadratic equations.

Beman and Smith: Solid Geomtery.

4 hours; one semester.

II. College Algebra. Variables and functions, equations, theory of equations, series, undetermined coefficients, permutations and combinations, probability.

Rietz and Crathorne: College Algebra.

4 hour; one semester.

III and IV. Analytical Geometry. This course aims to increase the student's appreciation of the processes of mathematical thought and the accuracy of expression afforded thereby; to train him in the application of fundamental principles of the analytic method both in the plane and in space; the straight line, conic sections, quadric surfaces, with special attention to locus problems. The idea of the derivative is introduced.

Fine and Thompson: Coordinate Geometry.

4 hours; two semesters.

V and VI. Differential and Integral Calculus. Drill on the methods of the Differential and Integral Calculus with numerous applications to geometry and physics, the theoretical development being as rigorous as the powers of each class will warrant. As a first course, however, its chief aim is to develop skill in the manipulation of formulas and in the statement and solution of problems. Indispensible for any advanced study of mathematics or physics and for intelligent engineering.

Osgood: Differential and Integral Calculus.

4 hours; two semesters.

VII. Differential Equations. Prerequisite: Mathematics V and VI. This course is indispensible for students looking toward electrical engineering.

D. A. Murray: Differential Equations.

3 hours; one semester.

VIII. Solid Analytical Geometry. Prerequisite: Mathematics V and VI.

C. Smith: An Elementary Treatise on Solid Geometry.

3 hours; one semester.

MECHANICAL DRAWING

Mr._____

Ia. The use of drawing instruments. Lettering, tracing, and blue-printing. Mechanical drawing from objects. Simple projections. Students in agriculture are required to draw a plan of some farm property, showing roads, buildings, drainage, etc.

3 hours; one semester.

Ib. The descriptive geometry of projections, intersections, and developments. Plans, elevations and sections of simple structural details.

3 hours; one semester.

MUSIC

Miss H. Waterman

Credit to the extent of not more than 2 credits in one semester, nor more than 6 credits toward graduation, may be secured for music study, if under the supervision of the College and of approved grade. Ordinarily some special technical study of music will be expected of a student seeking credit in music.

PHILOSOPHY

Professor A. Baxter

I. A rapid survey of the field of philosophy, showing the scope of philosophy and its relation to the sciences. It does not attempt to give an exhaustive presentation of any philosophical system, but rather an acquaintance with the problems which arise from the different theories in relation to modern thought. It states the presuppositions of ancient philosophy and discusses the solutions offered. It sketches the progress of modern philosophy and presents the modern view of the world with indications of the trend which philosophy is taking. Each student is required to state and defend his own theory of reality.

Rogers: Student's History of Philosophy.

3 hours; one semester.

PHYSICS

PROFESSOR C. K. EDMUNDS; ASSOCIATE PROFESSOR A. R. KNIPP;
MR. D. L. COOK

THE PHYSICS DEPARTMENT occupies two large rooms and a shop on the second floor of Martin Hall. Its demonstration and laboratory apparatus, and the shop equipment with lathes and forge, afford ample opportunity for experimentation in both elementary and advanced courses. It has a well equipped Meteorological Station and makes daily observations of atmospheric temperature and pressure, soil temperature, wind-velocity, rain-fall, evaporation and humidity. The Physics library comprises 600 volumes and includes files of the *Philosophical Magazine*, *Physical Review*, *Science Abstracts*, etc.

A and B. PROJECT PHYSICS. The chief object is to give the student an understanding of how physical principles underlie many experiences in every-day life and how some of the laws of physical science are applied in the home and the industries.

MILLIKAN AND GALE: A First Course in Physics.
AHRENS, HARLEY AND BURNS: Practical Physics Manual.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

Ia and Ib. GENERAL PHYSICS. A fairly rigorous presentation of general physics. A working knowledge of algebra, geometry and trigonometry is required and preferably a previous study of the equivalent of Physics A and B. The laboratory work aims to train the student to make accurate physical measurements and to reason clearly from the results recorded. A brief study of the precision of measurements is included and training in practical photography.

AMES: Text Book of General Physics.
AMES AND BLISS: A Manual of Experiments in Physics.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

IIa and IIb. MATHEMATICAL PHYSICS. Lectures on the mathematical basis of Mechanics, Heat, Light and Electricity. The laboratory course is made up of experiments requiring a considerable degree of precision.

Lectures 3 hours, laboratory 6 hours (6 credits); two semesters.

PSYCHOLOGY

MR. _____

I. GENERAL PSYCHOLOGY. This course aims to acquaint the student with the physiological basis of thought, and afford a general view of mental life, with particular attention to the learning process. It is intended to serve as a foundation for further work in philosophy, psychology or education. Experiments and assigned readings are included.

THORNDIKE: Elements of Psychology.
COLVIN: The Learning Process.

3 hours; one semester.

RELIGION

PROFESSOR A. BAXTER

A and B. THE CHRISTIAN CHURCH. Required of all Subfreshmen. The aim of this course is to give some idea of the nature, purpose and progress of the Christian Church in the world. Special attention will be given to the work of the great Church leaders and reformers from the Apostles onward to the Reformation and the persent day, and also to the social benefits that have been conferred on the world through the agency of the Christian Church. Some account of the nature and origin of the Church in the New Testament and of its development in Apostolic Times, especially through the missionary labors of St. Paul. The Church in the Roman Empire and its great leaders. The great periods of Church History and their significance. The Church of to-day and its place in the world as an agent for the coming of the Kingdom of God.

1 hour; two semesters.

I. CHRISTIAN ETHICS. Primarily for Freshmen.

The aim is to outline the Ethics of Jesus, to compare them with other ethical systems, and to indicate their beauty, depth, and supremacy as an ideal of conduct which can be translated into practice by the help of the Spirit of God. Some account will be given of Non-Christian Ethical systems, especially as found in China, India,

and Greece, and of the ethics of the Old Testament. The ethical ideas of Jesus will be indicated and discussed and the endeavor will be made to present them as an ideal of human conduct in individual, social, and international relationships.

2 hours; one semester.

II. Christian Apologetics. Open to Sophomores and above. The aim is to present Christianity so far as is possible as a reasonable faith, and to help the student towards the solution of problems that arise in the relation between Christian doctrine and practice and other branches of human knowledge. A statement and defence of the Christian doctrines of God, man and the world as against agnosticism and the views of materialism and pantheism. Problems connected with revelation and inspiration, miracles, prayer, forgiveness, the future life, and man's destiny.

Peake: Christianity, its Nature and Truth.

3 hours; one semester.

IIIa and IIIb. Comparative Religion. Open to Freshmen and above. The aim of this course is to examine as far as possible the chief religions of ancient and modern times with a view to answering the question "is a world religion possible and if so, is that world religion Christianity?" IIIa includes some discussion of the nature, origin and validity of Religion. An examination of some of the lower forms of Religion. A study of the religions of Egypt, Assyria and Babylonia, Persia, Greece and Rome. IIIb includes some account of the chief religions systems surviving in the world to-day—especially the religions of India, China and Japan—with a view to showing how the best elements of these religions are conserved, ennobled, and transcended in Christianity.

Menzies: History of Religion.

2 hours; two semesters.

IV. The Person of Jesus Christ. Prerequisite: Religion II. This final course aims at gathering together the conclusions

reached in previous courses and at showing how their validity depends on our interpretation of the central fact—Jesus Christ. An endeavor will be made to reach an interpretation adequate to previous conclusions and which will justify Christ's claim to be for all time the "Light of the World."

Jesus Christ as interpreted by Himself in the gospels, especially St. John. The meaning of His incarnation and death. Jesus Christ as interpreted by the growing thought and experience of the church, and the influence He has exerted and still exerts on history. The inadequacy of interpretations which stop short of seeing in Jesus Christ the "Son of God," "Mankind's Saviour," and the "Light of the World."

2 hours; one semester.

V. Old Testament History. A detailed study of Old Testament times and especially of the Hebrew people, aiming to relate the personalities, institutions, and writings of the Old Testament to Israel's national life and to other nations which influenced its historical development.

2 hours; two semesters.

SOCIOLOGY

Mr. _____

I. Social Problems. A general survey of a number of problems of the family, the race and the social order. Problems of the family; population; public welfare; women and children in industry; the status of women; social pathology; crime; famine; poverty; rural and urban life; industrial ethics; Chinese emigration; colonization; etc.

Ellwood: Sociology and Modern Social Problems.
Leong and Tao: Village and Town Life in China.

3 hours; one semester.

II. Social Psychology. Analytical study of the psychological aspects of social life and the principles of suggestion-imitation. The laws of mob-mind, fashion, custom, conventionality, conflict, public opinion, leadership and social control.

Ross: Social Psychology.

3 hours; one semester.

III. General Sociology. Prerequisite: Sociology I and II, if possible. General principles of the origin, development and organization of society up to its present stage. Systematic study of the social population, forces, processes, products and principles. Field of social service. Special attention to the social order and policies of the Orient. Social amelioration. The class will undertake some simple field work. Besides the texts, the student will become familiar, in the main, with the leading sociological systems and theories.

Hayes: Introduction to the Study of Sociology.
Carver: Sociology and Social Progress.

3 hours; one semester.

IV. Peace and War. War and militarism in their sociological aspects. Theories of war; national defense; maintenance of peace; theories of non-resistance; international peace. The course will be conducted as a round table discussion, and a systematic series of readings and reports required.

2 hours; one semester.

Special Publications of the College

BULLETINS ISSUED BY THE COLLEGE*

Bulletin No. 5. Groff, G. W., Agricultural Reciprocity between America and China. Illustrated. 40 pp. $0.20.

Bulletin No. 12. Groff, G. W., The Papaya for South China. Illustrated. 7 pp. $0.10.

——— Chinese edition under title 木瓜. 8 pp. $0.10.

Bulletin No. 15. Some Educational Problems in China. 20 pp. $0.20.

Bulletin No. 18. Levine, C. O., and Cadbury, W. W., A Study of Milk Produced in Kwangtung. 9 pp. $0.10.

Bulletin No. 20. The 1917-18 Journal of the Lingnaam Agricultural Society (in Chinese). 150 pp. $0.20.

Bulletin No. 22. Cadbury, W. W., The 1918 Pandemic of Influenza in Canton, China. 20 pp. $0.10.

Bulletin No. 23. Levine, C. O., Notes on Farm Animals and Animal Industries in China. Illustrated. 54 pp. $0.40.

Bulletin No. 25. Graybill, H. B., Lawn Grasses for South China. 6 cuts, 6 pp. $0.20.

CANTON CHRISTIAN COLLEGE SERIES OF TEXTS

IN ENGLISH

Bergstresser, C. A., Essentials of Arithmetic, Book I. Canton, 1909, College Bookstore. *Out of Print.*

Graybill, H. B., Every-Day English. Book I and Book II. Shanghai, 1910, Commercial Press, Ltd. Book I, $0.40; Book II, $0.30.

* A list of the general publications, catalogues, etc., descriptive of the Canton Christian College is give elsewhere in this catalogue, on page 18.

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GRAYBILL, H. B., Teacher's Manual for Every-Day English Books I & II. Canton, 1912, Commercial Press, Ltd. $0.30.

BERGSTRESSER, C. A., and WICKS, C. H., Essentials of Arithmetic, Book II. Canton, 1912, College Bookstore. *Out of Print.*

DUNCAN, K., Essentials of Economics. Shanghai, 1914, Commercial Press, Ltd. $0.80.

BERGSTRESSER, C. A., Essentials of Arithmetic, revised by Y. T. Chiu and W. E. MacDonald. Canton, 1917, College Bookstore. $2.50.

DUNCAN, K., Exercises in Elementary Economics. Canton, 1918, College Bookstore. $1.50.

GRAYBILL, H. B., Mastery of English Books I & II. Shanghai, 1919, Edward Evans & Sons, Ltd. Book I, $0.50; Book II, $1.00.

GROFF, G. W., The Lychee and Lungnan. Canton, 1920, Canton Christian College. 60 Illustrations. $2.20. *In the Press.*

IN CHINESE

FUSON, C. G., Primary Geography. 2 vol. Shanghai, 1913, Commercial Press, Ltd. $0.25 each.

WONG, K. M., Arithmetic for Higher Elementary Schools. 4 vol. Shanghai, 1913, Commercial Press $0.25 each.

FUSON, C. G., Geography of Kwangtung. Canton, 1918, College Bookstore. $0.25.

Any of the publications listed above can be secured, unless out of print, by ordering from the College Bookstore, Honglok, Canton, China.

COLLEGIATE MISSIONS
in the
CANTON CHRISTIAN COLLEGE

The Pennsylvania State College Mission to China
GEORGE WEIDMAN GROFF, M.S. (Pennsylvania State)
Horticulture 1907

The Foreign Work of the Christian Association of the University of Pennsylvania
WILLIAM W. CADBURY, M.A. (Haverford), M.D. (Pennsylvania)
Pathology 1909

The Teachers College of Columbia University Foundation for a Professorship of Education in China.
H. B. GRAYBILL, B. A. (Washington and Lee), M.A. and Diploma (Teachers College, Columbia)
Education 1914

The Foreign Work of the Christian Association of Vassar College
MISS NETTIE SZ-TO, M.A. (California)
Dean of Women 1915

The Foreign Work of the Christian Association of the University of Pittsburgh
J. FRANKLIN KARCHER, B.S. (Pittsburgh)
Biology 1915

The Foreign Work of the Williams College Christian Association
W. RUSSELL AUGUR, B.A. (Williams)
Mathematics 1916

The Kansas State Agricultural College Mission to China
CARL OSCAR LEVINE, B.S. (Kansas State)
Animal Husbandry 1916

The Washington and Lee University Mission to China 1919

CO-OPERATING
with the
CANTON CHRISTIAN COLLEGE

The London Missionary Society
Supporting Rev. ALEXANDER BAXTER 1915

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ACADEMIC CALENDAR

1920-21

SUMMER SESSION

		1920	
Summer Session opens, 8:00 a.m.	Mon.	Aug.	2
Summer Session closes	Wed.	Sept.	1

FIRST SEMESTER

Registration and Entrance Examinations, 8:00 a.m.	Wed.	Sept.	1
Re-examinations, 8:00 a.m.	Thurs.	Sept.	2
Fees paid at the Bank	Fri.	Sept.	3
Semester opens 7:00 p.m.	Fri.	Sept.	3
Holiday: Independence Day*	Mon.	Oct.	11
Holiday: Christmas Day	Sat.	Dec.	25
		1921	
Holiday: New Year's Day	Sat.	Jan.	1
Semester closes	Fri.	Jan.	21

SECOND SEMESTER

Registration and Entrance Examinations, 9:00 a.m.	Wed.	Feb.	2
Re-examinations, 9:00 a.m.	Thurs.	Feb.	3
Semester opens 6:00 p.m.	Fri.	Feb.	4
Holiday: Class and Founders' Day	Mon.	May	23
Alumni Day	Thurs.	June	16
Commencement Exercises, 11:00 a.m.	Fri.	June	17

* Oct. 10, Independence Day, falls on Sunday.

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Canton Christian College

College of Arts and Sciences

BULLETIN 30

CATALOGUE

1921-22

CANTON, CHINA

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Canton Christian College

College of Arts and Sciences

BULLETIN 30

CATALOGUE

1921-22

CANTON, CHINA

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of the

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WARREN P. LAIRD
LEBBEUS B. MILLER
MA YING PIU
DAVID EUGENE SMITH

THE PRESIDENT OF THE COLLEGE, *ex officio*

ADVISORS

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The Executive Secretaries of Mission Boards having work in China are *ex officio* Advisors to the College

American Office

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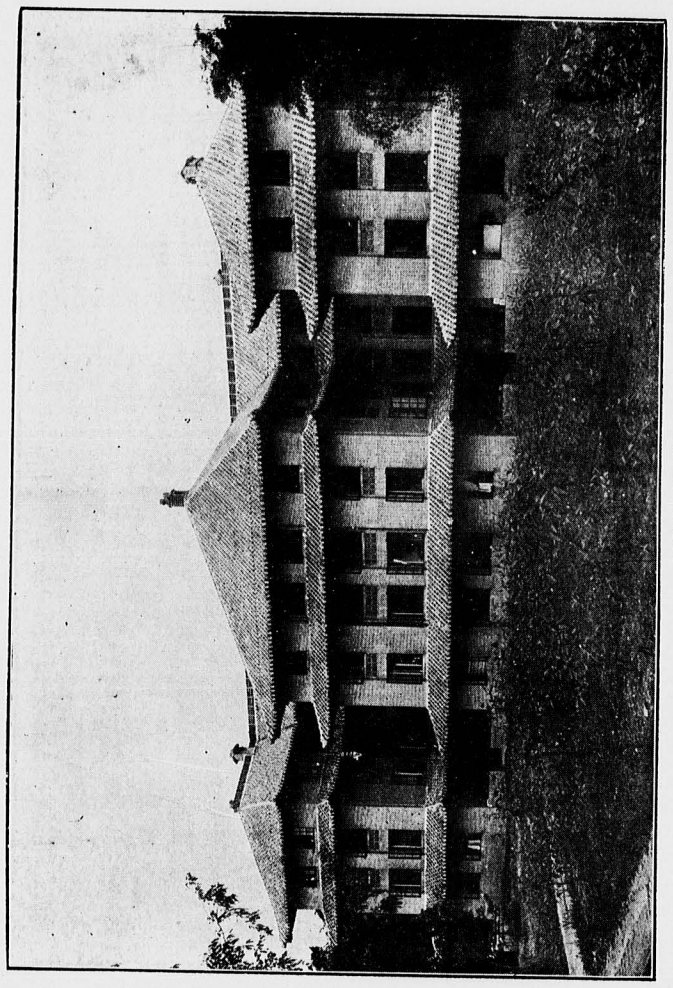

JAVA HALL
FIRST DORMITORY FOR COLLEGE STUDENTS. COMPLETED IN 1920

Canton Christian College

Bulletin No. 30

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of

The College of Arts and Sciences

Academic Year 1921-22

CANTON, CHINA
April, 1921
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Vice-President	W. K. Chung
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Heads of Schools

Dean of College of Arts and Sciences Acting Dean (1921-22)	Kenneth Duncan Clinton N. Laird
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Administrative Officers

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College of Arts and Sciences

Faculty

1921-22

晏文士 CHARLES KEYSER EDMUNDS, B.A., Ph.D., *President*; *Professor of Physics, and Director of Physical Laboratory.*

B.A., Johns Hopkins University, 1897, Fellow in Physics, 1902, and Ph.D., 1903; Acting Professor of Physics, University of Utah, 1898-99; Magnetic Observer, U. S. Coast and Geodetic Survey, 1900; Instructor in Physics, Central High School and Columbian University, Washington, D.C., 1900-01; General Secretary, Christian Association, Johns Hopkins University, 1901-02; Professor of Physics, Canton Christian College, 1903- ; Vice-President, 1906; President, 1907- ; Member, American Physical Society; Associate, American Institute of Electrical Engineers; Member, American Association for the Advancement of Science; Observer in Charge, Magnetic Survey of China, Carnegie Institution of Washington, 1905- .

鍾榮光 CHUNG WING KWONG, Chinese Second Degree, *Vice-President.*

Head of Chinese Department, Canton Christian College, 1900-08; Chinese Dean, 1909-16; Commissioner of Education for Kwangtung Province, 1911-13; Study and travel in America, 1913-16; Vice-President, 1917- .

香雅各 JAMES MCCLURE HENRY, B.A., B.D., *Executive Secretary.*

B.A., University of Wooster, 1901; Instructor in Biology, Alma College, 1901-02; Instructor in Mills Institute, Honolulu, 1902-04; B.D., Union Theological Seminary, 1907; Pastor, Peck Memorial Chapel, Washington, D.C., 1908-09; Instructor, Pui Ying Middle School, 1909-1914; Professor, Union Theological College, Canton, 1914-19; Assistant in Systematic Theology, Union Theological Seminary, New York, 1916-17; Executive Secretary, Canton Christian College, 1919- .

彭美賚 OWEN E. POMEROY, B.A., *Bursar and Business Manager; Lecturer in Business.*

B.A., Harvard University, 1905; Instructor, Canton Christian College, 1905-08; Complaint Clerk, James McCreery & Co., New York, 1908-09; Merchandise Manager, H. Batterman Co., New York, 1910-13; Bursar and Business Manager, Canton Christian College, 1914- .

鄧勤 KENNETH DUNCAN, B.A., M.A., *Dean of the College of Arts and Sciences; Professor of Economics.*

B. A., Wabash College, 1910; M. A., University of Wisconsin, 1915; Master, The College School, Kenilworth, Ills., 1910-11; Instructor, Canton Christian College, 1911-14; Special Examiner, Insurance Commission, State of Wisconsin, 1914; Associate Professor of Economics, Canton Christian College, 1915-18; Professor, 1918- ; Dean, College of Arts and Sciences, 1917- ; Fellow of the Royal Economic Society (London), 1915; Member, American Economic Association; American Sociological Society; American Statistical Association. *On leave, 1921-22.*

梁敬敦 CLINTON NEVIUS LAIRD, B.A., M.A., *Acting Dean of College of Arts and Science; Professor of Chemistry.*

B. A., University of Pennsylvania, 1903; M. A., 1905; Instructor, Canton Christian College, 1905-09; Bursar, 1907-14; Professor of Chemistry, 1910- ; Acting Dean, College of Arts and Sciences, 1921- ; Member, American Chemical Society; American Association for the Advancement of Science; American Electro-Chemical Society; Franklin Institute; Society of Chemical Industry.

葛理佩 HENRY BLAIR GRAYBILL, B.A., M.A., *Professor of Education; Principal of the Secondary School.*

B.A., Washington and Lee University, 1902; M.A., Columbia University, and Diploma, Teachers College, 1907; Teacher of English, Fishburne Military Academy, 1902-03, Instructor, Canton Christian College, 1903-06; Principal of the Middle School, 1907- ; Acting Dean, College of Arts and Sciences, 1915-16; Professor of English, 1915-16, of Education, 1916- .

馮世安 CHESTER GARFIELD FUSON, B.A., F.R.G.S., *Lecturer on Teacher Training.*

Graduate, Kansas State Normal School, 1903; B.A., College of Emporia, 1905; Instructor, Canton Christian College, 1905-09; Supervisor of Elementary Schools and Professor of Geography, 1910-16; Lecturer on Teacher Training, 1917- ; Assistant Magnetic Observer, Expedition through Central Asia, Carnegie Institution of Washington, 1909; Fellow of the Royal Geographical Society (London), 1910; Executive Secretary of Board of Primary Education, Kwangtung Christian Education Association (Member, American Presbyterian Mission), 1917- .

高魯甫 GEORGE WEIDMAN GROFF, B.S., M.S., *Professor of Horticulture and Director of Agricultural Work.*

B. S., Pennsylvania State College, 1907, M. S., 1918; Instructor, Canton Christian College, 1907-10; Professor of Horticulture and Director of Agricultural Work, 1912- ; Collaborator of United States Department of Agriculture, Bureau of Plant Industry, 1915-17; Field Assistant, 1917- .

陳輯五 CHAN TSAP NG, Chinese First Degree, *Senior Professor of Chinese.*

FIRST DEGREE, Chinese Government Examinations, 1902; Instructor in Kwangtung schools, 1902-07; Instructor, Canton Christian College, 1908-13; Acting Chinese Dean, 1913-16; Associate Professor of Chinese, 1913-17; Senior Professor, 1918- .

麥丹路 WILFRID EWART MACDONALD, B.A., M.A., *Professor of Mathematics.*

B.A., University of Tennessee, 1901; M.A., Harvard University, 1907; Licentiate in Mathematics, University of Tennessee, 1900; Instructor in Mathematics, Massachusetts Institute of Technology, 1903-06; Instructor in Mathematics, Harvard University, 1907-10; Professor of Mathematics, Canton Christian College, 1910-16, 1917- ; Instructor in Mathematics, University of Pittsburgh, 1916-17.

嘉惠霖 WILLIAM WARDER CADBURY, B. A., M. A., M. D., *College Physician; Internist to Canton Hospital.*

B. A., Haverford College, 1898; M.A., 1899; M.D., University of Pennsylvania, 1902; Demonstrator in Pharmaco-Dynamics and Associate Demonstrator in Pathology, University of Pennsylvania, 1906-07; Pathologist to St. Mary's Hospital, Philadelphia, 1906-07; Physician to Starr Centre Dispensary, Philadelphia, 1906-08; Examining Physician to Children's Bureau, Philadelphia, 1907-08; Visiting Physician, Free Hospital for Poor Consumptives, White Haven, Pa., 1908, Visiting Physician to the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis, 1906-08, Curator and Librarian, 1907, and Pathologist, 1908; Instructor in Materia Medica and Therapeutics, University Medical School, Canton, 1910-14; Director and Chief Surgeon and Physician, Kung Yee Hospital, Canton, 1913-14; Fellow, College of Physicians, Philadelphia; Editor, China Medical Journal (Chinese), 1912-14; Lecturer, Canton Christian College, 1914; Assistant Resident Physician, Peter Bent Brigham Hospital, 1915-16; Internist to Canton Hospital, 1914- ; College Physician, Canton Christian College, 1917- . *On leave, 1921-22.*

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考活 CHARLES WALTER HOWARD, B. A., M. S., *Professor of Biology; Curator of the Museum.*

B.A., Cornell University, 1904; M.S., University of Minnesota, 1913; Assistant Entomologist, Transvaal Department of Agriculture, 1905-06; Entomologist, 1906-08; Entomologist to the Pan-South African Trypanosomiasis Commission, 1906-08; Entomologist, Department of Agriculture of Portuguese East Africa, 1908-11; Special Assistant, Rockefeller Institute for Medical Research, 1911; Instructor in Entomology, Minnesota Agricultural College, 1912-13; Assistant Professor of Entomology and Parasitology, 1913-17; Associate Professor, 1917; Professor of Biology, Canton Christian College, 1917- ; Curator of Herbarium, 1918-20; Curator of Museum, 1918- ; Fellow of London Entomological Society, 1907; Fellow, American Association for the Advancement of Science, 1915; Member, American Association of Economic Entomologists; Biological Society of Washington; Entomological Society of America.

盧姑娘 LILLIE DEMING LOSHE, B.A., Ph.D., *Professor of English.*

B.A., Bryn Mawr College, 1899; Ph. D., Columbia University, 1905; Instructor, Bryn Mawr College, 1906 09; Instructor, Canton Christian College, 1915-16; Professor of English, 1918- . *On leave 1921-22.*

鮑令留 HENRY CHASE BROWNELL, B.A., M.A., *Professor of History.*

B.A., University of Vermont, 1908; Rhodes Scholar, Oxford University, 1910-13; B.A., 1912; Saltonstall Scholar, Harvard University Graduate School, 1918-19; M.A., 1919; Assistant in History, Harvard College and Radcliffe College, 1918-19; Instructor, Canton Christian College, 1908-10; Associate Professor of History, 1913-19; Professor, 1919- ; Member, American Historical Association.

白士德 ALEXANDER BAXTER, REV., *Professor of Religion and Supervisor of Religious Work.*

Graduate, Hackney Theological College, University of London, 1907; Ordained by Congregational Church and appointed to Canton, 1907; Missionary of the London Missionary Society in Canton and vicinity, 1907-15; appointed London Missionary Society's representative on Faculty of Canton Christian College as Associate Professor, 1916-19; Professor, 1919- . *On leave, 1921-22.*

那多智 HERBERT PIERCY NOTTAGE, M.D., *Specialist, Eye, Ear, Nose and Throat; Associate College Physician.*

M.D., Harvard Medical School, 1886; Associate Editor, Annals of Gynaecology, 1886-8; Surgeon, Roger-Williams Eye and Ear Infirmary, Providence, R.I., 1896-7; Specialist, Eye, Ear, Nose, Throat, to Queen's Hospital and Children's Hospital, Honolulu, 1909-15; Captain Medical Corps, U. S. A., 1917-8; Chief of Section of Head Surgery, Camp Cody, N. Mex., 1918-19; Associate College Physician, Canton Christian College 1920- .

陳仲偉 CHAN CHUNG WAI, Chinese First Degree, *Associate Professor of Chinese Literature.*

FIRST DEGREE, Chinese Government Examinations, 1899; Student in Japan, 1901; Instructor in Kwangtung schools, 1906-12; Editor-in-chief, "Man Shaan Daily," Canton, 1912-13; Instructor, Canton Christian College, 1913-18, Associate Professor of Chinese Literature, 1918- .

格禮 JOHN CORNELIUS GRIGGS, B A., PH. D., *Associate Professor of English.*

B. A., Yale University, 1889, Ph. D., Leipsic, 1893; Professor, History of Music, Metropolitan College of Music, 1893-1898; Lecturer, Brooklyn Institute, 1904-1910; Teacher of Singing in New York City and at Vassar College, 1897-1918; Associate Professor of English, Canton Christian College, 1919-

聶士 ARTHUR RUSSELL KNIPP, B.A., B.S., *Associate Professor of Physics; Resident Engineer.*

B.A., Johns Hopkins University, 1907; B.S., Massachusetts Institute of Technology, 1909; Instructor, Canton Christian College, 1909-15, 1917-19; Resident Engineer, 1909-15, 1917- ; Miscellaneous engineering and teaching experience in U. S. A., 1915-17; Associate Professor, 1919- .

羅飛雲 CARL OSCAR LEVINE, B.S., M.S., *Associate Professor of Animal Husbandry.*

B.S., in Agriculture, Kansas State Agricultural College, 1914; M.S., Iowa State College, 1920; Chairman, Marshall County (Kansas) Farm Bureau, 1915-16; Instructor, Canton Christian College, 1916-19; Curator of Herbarium 1915-18; Acting Director of Agricultural Work, 1917-18; Associate Professor, 1919- ; Dairy Research Fellow, Iowa State College, 1919-20.

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特嘉 JESSIE DOUGLASS, B.A., *Librarian.*

B.A., Radcliffe College, 1901; Head cataloguer, Brown University Library, 1903-07; Special classifier, General Theological Seminary, New York, 1908-09; Private Librarian to Hon. N. W. Aldrich, 1910-15; Librarian, The Farmers' Loan and Trust Company, New York, 1917-18; Librarian, Canton Christian College, 1919- .

趙恩賜 CHIU YAN TSZ, B.S., M.A., *Instructor in Chemistry.*

B.S., University of California, 1913; M.A, Columbia University, 1915; Associate General Secretary, Chinese Student Christian Association of North America, 1913-14; Instructor, Canton Christian College, 1915- ; Member, American Chemical Society.

譚錫鴻 TAAM SIK HUNG, B.S., *Instructor in Animal Husbandry*

Graduate, Canton Christian College, Middle School, 1911; B.S. in Agriculture, Kansas State Agricultural College, 1916; Instructor, Canton Christian College, 1916- ; Instructor, Government Agricultural Colleges, Kaifeng and Wuhu, 1920-21.

陳德芸 CHAN TAK WAN, Chinese First Degree, *Instructor in Chinese and History*; *Assistant Librarian.*

FIRST DEGREE, Chinese Government Examinations, 1898; Instructor in Kwangtung, Hongkong and Macao schools, 1900-11; Managing Editor, "Man Shaan Daily," 1912-13; Instructor, Canton Christian College, 1915- ; Assistant Librarian, 1919- .

巴羅 JOHN V. BARROW, B.A., *Instructor in Religion.*

B.A., University of Texas, 1915; Teacher of Latin, Clarksville (Tex.) High School, 1915-16; Instructor in Middle School, Canton Christian College, 1916-20, 1921- ; Librarian, 1917-19; Acting Principal of Middle School, 1919-20; Student at Yale Divinity School, 1920-21.

曲大衛 DAVID LIVINGSTONE COOK, B.S., *Instructor in Physics.*

B.A., Willamette University, 1916; Principal of Carey (Idaho) Schools, 1912-13; Principal, Metolius (Oreg.) High School, 1913-14; Assistant in Physics, Willamette University, 1915-16; Principal, Newberg (Oreg.) High School, 1916-17; Instructor, Canton Christian College, 1917- ; Member, American Association for the Advancement of Science.

區勵周 AU LAI CHAU, Chinese First Degree, *Instructor in Chinese Literature.*

FIRST DEGREE, Chinese Government Examinations, 1898; Graduate, Provincial Law School, Kwangtung, 1911; Government service and miscellaneous teaching experience, 1900-07, 1911-14; Instructor, Provincial Law School, 1914-15 Instructor, Canton Christian College, 1915- .

基濟 JAMES NOEL KEYS, B.A., M.A., *Instructor in Psychology and Education.*

B.A., College of Emporia, 1916; Rhodes Scholar, Oxford University, 1913-14, 1916-17; B.A., 1918; M.A., University of Chicago, 1921; Acting Principal, Ransom (Kans.) High School, 1914-15; Secretary with British Army Y.M.C.A. in German East Africa, 1917-18; Instructor in Psychology and Education, Canton Christian College, 1919-20; 1921- .

方孝常 WALTER LEON FUNKHOUSER, B.S., *Instructor in Animal Husbandry.*

B.S. in Agriculture, Pennsylvania State College, 1920; Instructor, Canton Christian College, 1919- .

莫古黎 FLOYD ALONZO MCCLURE, B.A., B.Sc., *Instructor in Plant Husbandry.*

B.A., Ohio State University, 1918; B.Sc., 1919; Instructor in Plant Husbandry, Canton Christian College, 1919- .

司徒月蘭 NETTIE SZ-TO, B.A., *Dean of Women.*

B.A., 1917, University of California; M.A., 1918; Dean of Women, Canton Christian College, 1919- .

楊眞信 OBED S. JOHNSON, B.A., B.D., *Instructor in New Testament Greek.*

B.A., Carleton College, 1906; Hartford Seminary, 1906-07; Chicago Seminary, 1907-08; B.D., Oberlin Seminary, 1909; Union Theological Seminary, 1917; Missionary of A.B.C.F.M. at Canton, 1909- ; In charge of Department of Church History, Canton Union Theological College, 1919- ; Instructor in New Testament Greek, Canton Christian College, 1920- .

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傅保光 Fu Po Kwong, B.S., M.S., *Instructor in Agriculture.*

B.S. in Agriculture, Michigan Agricultural College, 1914; M.S., 1916; Seed Selector, D. M. Ferry Seed Farm, near Detroit Mich., 1914-16; Chemist and Superintendent, M. Y. San Biscuit and Confectionery Co., Hongkong, 1917-19; Instructor, Canton Y.M.C.A. Commercial Institute, 1919-20; Instructor in Agriculture, Canton Christian College, 1920- .

布士維 Karl Porter Buswell, B.A., *Instructor in Biology, Curator of Herbarium.*

B.A., University of Minnesota, 1920; Instructor in Biology, Canton Christian College, 1920- ; Curator of Herbarium, 1920- .

陳受頤 Chan Shau Yi, B.A., *Instructor in Chinese Literature.*

B.A., Canton Christian College, 1920; Instructor in Chinese Literature, Canton Christian College, 1920- .

吉第 Maurice LaRoy Cotta, B.S., *Instructor in Physics.*

B.S. in Municipal and Sanitary Engineering, University of Illinois, 1920; Instructor in Physics, Canton Christian College, 1920- .

居連活 Sam Lee Greenwood, B.A., *Instructor in Modern Languages.*

B.A., Winona College, 1917; Teacher of Latin and German in High Schools of Ohio, 1912-15; Assistant in German, Winona College, 1915-16; Teacher of German and Latin, Knox, Ind., 1916-17; Teacher of Modern Languages, Genesee Wesleyan Seminary, Lima, N.Y., 1917-20; Instructor in Modern Languages, Canton Christian College, 1920- .

何爾達 Alfred Hubbard Holt, B.A., *Instructor in English.*

B.A., Williams College, 1920; Instructor in English, Canton Christian College, 1920- .

倫秩師奶 Minnie C. Rand, Mrs., B.A., *Instructor in Home Economics.*

B.A., Winona College, 1916; Teacher of Home Economics, Winona College, 1916-19; Dietician, U.S. Army, Camp Wheeler, 1918-19; Teacher of English, Genesee Wesleyan Seminary, Lima, N.Y., 1919-20; Instructor in Home Economics, Canton Christian College, 1920- .

章鍚 Sidney Kok Wei, B.A., Ph.D., *Instructor in Philosophy and Government.*

B.A., Oberlin College, 1918; Ph.D., University of Chicago, 1920; Instructor in Philosophy and Government, Canton Christian College, 1921- .

姚腓力 Philip Newell Youtz, B.A., M.A., *Instructor in English.*

B.A., Amherst College, 1918; M.A., Oberlin College, 1919; Principal, American-Chinese School, Canton, 1920- ; Professor of English, Government Higher Normal College, 1921; Instructor in English, Canton Christian College, 1921- .

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Location of the College



THE CANTON CHRISTIAN COLLEGE, known in Chinese as 嶺南大學 *Ling Naam Taai Hok*, is situated on the north shore of the island of Honam, two and a half miles east of the center of the city of Canton, the metropolis of Kwangtung Province, which is but ninety miles from the port of Hongkong. The College property lies along the Pearl River, nearly opposite the Tungshan suburb of Canton.

The College has a campus of a hundred and fifty acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from 40 to 70 feet above the river, which affords beautiful views in all directions. There are thirty-six permanent buildings of brick and reinforced concrete, with five more approaching completion, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office known as *Honglok* (康樂), an agency under the Canton postal administration, on its campus. The address of the College is Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day from the end of the Bund near the Canton-Kowloon Railway station.

History of the College

THE HISTORY of the Canton Christian College on its present site dates from 1904.

Its rapid expansion and success during this time owes much, however, to the bold aims and persistent efforts of a small group of men during the twenty years previous. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his Board for a Christian College in Canton, and next year one of his colleagues, Rev. A. P. Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to us English as the medium for

teaching Western subjects, and to have as broad a purpose as the Syrian Protestant College at Beirut. Though five of the seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools, and for contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moreover, needed leaders of Christian faith and ideals in every sphere of life.

Dr. Happer had received a petition from no less than four hundred Chinese, including the most prominent officials, scholars, gentry and merchants of Canton, requesting that a high grade school be started under joint American and Chinese auspices; and in 1898 President Wisner received a petition signed by fifty four pastors, licentiates, teachers and elders of all denominations in and near Canton urging that the College be maintained in Canton to serve the church as a whole.

Mr. Henry Martin, Dr. Happer himself, and others formed the initial fund, and the school was incorporated under the laws of the state of New York in 1893. For a time the Trustees owned the property and carried on the school of the Presbyterian Mission, Fati, but in 1898 they resold this property to the Mission, and the next year started a separate school with Rev. O. F. Wisner as president. This was moved to Macao during the Boxer disturbances and remained there four years while the small rice fields, bamboo groves, ponds and innumerable grave plots near Canton, on which the College could be built, were gradually being acquired.

A part of the original fund was invested in a large three-story classroom building, ant-proof and fire-proof from cellar to roof, the first of its kind in China. For four years more the College waited for its second permanent building. Then in 1909 came a dormitory from Chinese friends who had proved to themselves the worth of the school, and this was rapidly followed by five more dormitories, until the sums specially contributed by Chinese toward the upbuilding of the institution amounted to hundreds of thousands of dollars.

About 1909 American friends began giving residences for the staff, a water system, etc., and construction has gone forward without interruption, even by the European War. There are now nineteen

houses on the hill, and above them all, Grant Hall a splendid administration building provided by Mrs. J. S. Kennedy in 1915. That year saw completed, in another commanding position and also of special architectural interest, an auditorium and Christian Association building, the gift of Mr. Ambrose Swasey.

More recently the college has received a notable addition to its buildings in the infirmary donated by its first Chinese Trustee, Mr. Ma Ying Piu. The generosity of these and many other liberal givers is specially remembered each year on Founders Day, an occasion when it is possible, too, for the whole College community to express its gratitude to the one who has had a larger share than any other in making the present institution, Mr. W. Henry Grant, for twenty-five years the untiring Secretary of the Trustees.

The fifteenth anniversary of the establishing of the college on its present site was celebrated by a Pageant on November 29, 1919. More than four thousand guests were entertained and given every facility for seeing the material growth and future prospects of various departments. An important feature marking this anniversary was the completion of a large dormitory, *Java Hall*, for the the exclusive use of the College of Arts and Sciences. Now in 1921, a sixth large dormitory, *Chang Hall*, is ready for use, especially designed for students returning from distant Chinese settlements to acquire an education in the home land.

Two other structures, the Sericulture Building and its companion, the Sericulture Extension, will be occupied soon. A guest house near the entrance gate is well under way, and ground is broken for a twentieth residence.

More important however than grounds and physical equipment to any institution are those less tangible but no less real assets of purpose, ideals, courage, wisdom and organization. The declaration of the College was as follows: "The purpose of rhe Trustees of Canton Christian College is to establish in Canton and adjacent territory in China, an institution of learning of the highest standards of educational efficiency, under Christian influences". In striving toward this end many problems new and peculiar are met, apart from such as accompany ordinary educational work. That progress in these lines should be commensurate with growth in buildings and organization has been possible only through the exercise of great wisdom by both the authorities in New York and the workers in the field. The

plant is used to capacity, and so far as those directly interested in the work may judge, the measure of educational result in the various schools is fairly indexed by the physical growth of the institution.

The Elementary School, started in a near-by village as a Student Christian Association enterprise, has been transferred to the campus and become a regular model department, with five attractive cottages built with gifts from Chinese, each having dormitory and classroom space for thirty children. A central hall, the gift of Mr. Tan Kah Kee of Singapore, provides an assembly room and a demonstration classroom, as well as a central kitchen for the group of cottages.

In the interest of establishing high standards all along the line, and as a foundation for its own collegiate work, the Canton Christian College felt from the first the necessity of maintaining a strong secondary school. Indeed thus only, through a Middle School, did the college department become a possibility. And now, even with encouraging numbers of college applicants coming from the mission schools and elsewhere, the adequate development of the College of Arts and Sciences must for many years still depend largely upon the feeding capacity of its own Middle School. In addition, however, to preparing students for college, the Middle School aims to give an all-round training, and to meet the needs of those who must go out into active life without further study.

While the activities of the Christian Association have been steadily expanding and several dependent village schools opened, the increasing number of those who have joined the Christian church while students has been a source of great encouragement.

In athletics the students have won an enviable prestige among Canton and Hongkong schools, besides excavating with their own hands a large swimming pool near the river, an unfailing source of physical benefit as well as real enjoyment.

The London Missionary Society in 1915 set apart one of it workers to become the professor of religion in the College. This is the most striking though not the only way in which the missions have sought to cooperate and it will be followed, it is to be hoped, by similar steps on the part of others.

In 1907 an agriculturalist joined the staff and the College garden, begun at that time, has developed into the Agricultural

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Work of the College of Arts and Sciences with a most interesting and growing experimental field. For this phase of the work, groups of interested people in Pennsylvania State College and Kansas State Agricultural College have assumed part responsibility. Their representatives are carrying on a work which commends itself in a peculiar way to both people and government in Kwangtung.

So far more than a hundred students have gone from the Canton Christian College to American universities. The aim, however, is to prepare students at Canton to give as effective service to their country as if they had studied abroad.

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The College Library

THE COLLEGE LIBRARY, now in Grant Hall, has two distinct sections,—one in Chinese, and one in foreign languages, chiefly English. The English collection contains approximately 12,000 volumes and the Chinese books number about 21,000. Several departments are also equipped with books, loaned from the main collection.

The library aims to serve the needs of students in the various college courses. Besides the material in the library itself, faculty members customarily place their private libraries at the service of students, so that students have access to not less than 17,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, the social sciences and education, are unusually well-selected and valuable.

Over one hundred periodicals, weeklies and monthlies, general and technical, are kept on file, the more valuable ones being bound, and used for departmental research work.

Daily newspapers from Canton, Hongkong, Peking, Shanghai and Tokyo are taken. THE CANTON TIMES and the weekly edition of THE NORTH CHINA HERALD are bound for permanent shelving.

The foreign library is classified according to the Dewey decimal system, with the exception of the books on China, for which there is a special classification. As far as available, Library of Congress cards are used, and further, the library subscribes to all cards issued relating to China, whether the books represented by the cards are in the College Library or not. This bibliography of China is kept in a separate file and, containing both author and title cards, affords an index to a large part of the existing foreign literature on China.

The library is a repository for publications of the Carnegie Institution of Washington, the Carnegie Endownment for International Peace, the United States National Museum, many departments of the United States Government and several administrations of the Chinese Republic, as well as for publications of other governments.

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The College Museum

THE COLLEGE MUSEUM, located in Martin Hall, has a selection of articles and specimens of general and scientific interest. In the collection are over a hundred stuffed birds, 250 bird skins, about 500 specimens of woods, about a thousand coins, including many ancient Chinese coins, a number of fossil and mineral specimens, collections of local butterflies, moths, insects and reptiles, several industrial exhibits, and miscellaneous articles of archeological, scientific and popular interest. The museum is equipped with proper cases for the preservation and display of its specimens.

The College Herbarium

THE BUREAU OF SCIENCE in the Philippines and the Department of Agriculture of the United States are liberally cooperating with the College in the establishment of an herbarium in charge of a member of the biology department in conjunction with the agricultural department. The herbarium has over 4,000 specimens of plants representing 1,200 species collected in Kwangtung province.

Collections from the Philippines and other lands are also found in the herbarium and valuable exchange material with the United States and European countries is being acquired. The local survey is being extended into the interior regions of South China. Students and friends of the college are urged to cooperate in the collection of specimens so as to get as soon as possible an adequate knowledge of the plants of this region.

Through cooperation with Professor E. D. Merrill, chief of the Philippine Bureau of Science, and Professor K. K. Tsoong (鍾觀光) of Peking Government University, there is in preparation an index in Chinese of the plants of South China.

Publications

THE COLLEGE has issued a few *text-books* in English and in Chinese and issues *special hulletins* upon scientific subjects. A list of these is given elsewhere in this catalogue.

嶺南 THE CANTON CHRISTIAN COLLEGE MAGAZINE, or LING NAAM MAGAZINE, a bulletin of information on college matters, is published quarterly in Chinese and is mailed to subscribers for $0.60 per year.

南風 NAAM FUNG, also in Chinese, is a publication of a literary nature carried on by the students. Its subscription price is $1.00 per year.

THE STUDENT CHRISTIAN ASSOCIATION issues a weekly news sheet (嶺南青年報) in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is $0.60 yer year.

THE DAILY METEROLOGICAL RECORD, a bulletin issued each month, gives a record of the meterological observations made each day at the Freeman Meterological Observatory, together with monthly summaries.

The following *hulletins* and *leaflets* are issued to give information about the school, and may be obtained by writing to the head of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

NAME	CHARACTER
Calendar	Chinese leaflet on dates, fees, entrance, etc.
Catalogue of College of Arts and Sciences	English bulletin on courses, regulations, etc.
Middle School Catalogue	Chinese bulletin on courses, regulations, etc.
Elementary School	Chinese leaflet on courses, fees, etc.
Summer Session	Chinese leaflet on courses, fees, etc.
"Taai Koon" (大觀)	Chinese bulletin, illustrated, for contributors.
"Canton Christian College"	English booklet, illustrated. Price $1.00.

College Organizations

COLLEGE STUDENT UNION

THE COLLEGE STUDENT UNIOE is the official organization of the entire College student body. In enjoys liberal powers of self-gevernment and control of matters of general student interest. Its constitution provides for an executive committee, and special committees responsible for discipline, athletics, boarding and social matters. It elects its officers and committee-men each semester.

Student Christian Association

The Student Christian Association provides students with facilities for voluntary religious activities and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well equipped center for such purposes. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night schools for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall. The Association employs a General Secretary, publishes a weekly paper in Chinese, and a fortnightly newsletter in English.

Student Council

The Student Council is composed of the following members: the President of the Student Christian Association, the President of the College Student Union, the Middle School Student Representative, and the President of the Canton Christian College or his appointee. Its function is to provide efficient means of conducting any affairs that concern the students of more than one school. It may, when necessary, call meetings of the students through the proper representatives.

Arts and Science Club

The Arts and Science Club is an organization of the Faculty and advanced students of the College which has the object of stimulating its members to keep abreast of modern scientific ideas and of encouraging reports on original investigations.

Membership may include any of the English-speaking Faculty of the entire College. All other English-speaking persons on the campus, Freshmen, Sophomores, Juniors and Seniors are eligible for associate membership. There are no dues.

Regular meetings are held once a month and special meetings are called from time to time to hear distinguished visitors.

College Literary Societies

The students maintain the College Literary Societies, membership in which includes college students of Freshman grade or above and such faculty members as care to join. Meetings are held every week for declamation, impromptu speaking and translating, and other forms of public address. Programs are rendered in English, Mandarin, and Cantonese. The societies seek to improve their members in public speaking, to familiarize them with parliamentary procedure, and in general to encourage literary activity.

Agricultural Society

The purpose of the Agricultural Society is to develop interest in the agricultural work of the College, and to promote agricultural education, investigation and extension in South China. Membership is active, associate, or honorary. The society meets on the first Monday of each month during the academic year.

Education Club

An Education Club has been organized by members of the faculty and students of education to promote interest in and investigation of important educational questions. Teachers and students wishing to join will be welcomed and may always obtain information at the office of the Dean.

College Band

A band of twenty-five pieces has been organized under the leadership of a member of the staff. It plays for the middle school cadets at drill and also at many other functions.

College Bookstore

The College Bookstore, located in Grant Hall, maintains a stock of text-books and other school supplies required by students. These are sold practically at cost.

College Bank

The College Bank receives current and time deposits, and furnishes local banking facilities.

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College Press

The College Press serves the College and community for job and book printing, both in English and Chinese. Many of the English bulletins of the College, including this catalogue, are printed by the College Press.

Organization of the Schools

THE CANTON CHRISTIAN COLLEGE comprises three grades of schools: The Elementary school (7 years), the Middle School (4 years, including the Sub-freshman year), and the College of Arts and Sciences (4 years, excluding the Sub-freshman year).

The Elementary School, housed in a series of six buildings of its own, and forming a complete and separate administrative unit, consists of a lower primary department of four years for boys and girls, and a higher primary department of three years for boys only. Covering the age of childhood from about eight to fifteen, it aims to provide an atmosphere of both home and school by giving each class and its two teachers a cottage as a family center for its life and study.

The Middle or Secondary School, corresponding to the high school or college preparatory in the United States, is a middle school for boys only and meets the special problems of the formative years beyond thirteen or fourteen. Girls may be admitted into the fourth year (Sub-freshman) class.

For administrative purposes the fourth middle school year is temporarily included under the College of Arts and Sciences as a Sub-freshman year. At present there are, therefore, only three years under the Middle School administration. The Middle School gives a certificate to those who have completed the four-year course of study and the College of Arts and Sciences gives a *junior certificate* covering five years work at the end of the college Freshman year, which states that the middle school and one year of college have been completed. Beginning with the year 1922, however, the present one-year junior certificate will be discontinued, and a two-year junior certificate, awarded under certain regulations upon the completion of the Sophomore year, will be granted.

The College of Arts and Sciences

This is open to both men and women and at present comprises four years and also one year which is of Middle School rank but is grouped with the College for administrative purposes. The five years are called Sub-freshman, Freshman, Sophomore, Junior and Senior respectively.

In general, the purpose of the College of Arts and Sciences is to fit students for definite lines of intelligent leadership and service in China. With this end in view, the College offers instruction in seven groups of associated studies. A more complete and detailed statement of these courses is given in a subsequent section.

The College of Arts and Sciences furnishes students a collegiate education of the thoroughness and general excellence of that to be obtained in the colleges and universities of foreign countries. The student has the advantage of keeping in close touch with his own country and of correlating his education with the economic, social and general scientific needs of China.

It is felt that Chinese students can be of largest service to their country if their collegiate education be fully provided in China; that only the occasional student seeking further research will need to go abroad for study, and then only for graduate work of a highly specialized character.

The Canton Christian College offers unusual facilities in its College of Arts and Sciences. Each student is under the special care of a *faculty advisor*, with whom the student can confer freely, not only on academic matters but on personal affairs as well. Each student should feel that his advisor is genuinely interested in his welfare and it is to the advantage of the student to seek his advice and help.

The *college physicians* attend all students who may require medical attention and give each student a thorough medical examination annually.

For other details as to the College of Arts and Sciences, see the appropriate sections that follow in this catalogue.

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Summer Session

In addition to the regularly scheduled work of the academic year, a Summer Session of one month is held. This consists, firstly, of advanced courses for those desirous of extra credits, and secondly, of supplementary short courses of both College and Middle School grade for those who are deficient in entrance requirements or in class standing. Further information on the Summer Session is obtainable from the Dean. A special leaflet is issued in June of each year.

College of Arts and Sciences

Admission

APPLICATION FOR ADMISSION to the College of Arts and Sciences is made to the Dean. This should be done some time in advance of the beginning of the academic year so that the applicant may be advised in case admission appears improbable or impossible. The intending student should procure a blank application for matriculation, fill it out completely, using the same name under which he has been enrolled elsewhere. The student must not change his name during his period of study, and should adopt the standard of romanized spelling used by the college.

An applicant must have a clean record from the school or schools last attended, evidenced by a leaving certificate indicating honorable dismissal or withdrawal. He should be able to furnish a detailed statement of work done in middle school, certified by the principal or proper officer of the school from which he comes. Blanks for this purpose may be secured on application to the Dean. New students who fail to present adequate credentials can be admitted only provisionally.

Admission to the Sub-freshman Class

To enter the *Sub-freshman Class* (Fourth Year Middle School) the applicant must present a certificate of sufficiently high standing from an accredited school, or else be able to pass examinations on the following work: English Grammar and Composition, with sufficient readiness of speech and understanding to enable him to do his work through the medium of the English language; Algebra as far as quadratic equations; Plane Geometry; Geography of

the World; Elementary Science, including simple Physiology and Hygiene; Chinese History; History in brief of one Western country; Chinese Literature, and creditable skill in Chinese Composition.

Admission to the Freshman Class

To enter the *Freshman Class* the applicant must offer in addition to the above the following: Ancient and Mediæval History; Intermediate Algebra (including progressions and logarithms); Solid Geometry or Plane Trigonometry; General Science* with laboratory work and note-book records; and some knowledge of English Literature. No advanced credit can be granted students coming from other institutions for work unless it is more advanced than any offered in the Sub-freshman year. Other subjects of equivalent value may be offered in place of those enumerated above. A fair knowledge of the Bible will receive due credit. Each case will be judged on its merits. The Dean will welcome correspondence on individual cases.

Accredited Schools

Schools with standards similar to those of the Middle School of the Canton Christian College may become accredited schools and recommend their students for admission without examinations.

On recommendation of the principal of the school, students from True Light Middle School, Union Middle School, Pooi To Middle School and Pui Ching Middle School will be admitted to classes of the College of Arts and Sciences without examinations.

Senior and Junior Local Certificates

Students who have passed the matriculation examination of the University of Hongkong or who hold certificates of the senior Oxford and Cambridge local examinations, will be admitted to the Freshman class without further examination on the subjects covered by the senior local certificate, except Chinese.

Students who have passed the junior locals of the University of Hongkong, or of Oxford and Cambridge, will be admitted to the Sub-freshman class without further examination on the subjects covered by the junior local certificate, except Chinese.

*Or a good laboratory course in Physics.

ENTRANCE CONDITIONS

Applicants deficient in one or two subjects may be admitted with conditions, but such conditions must not exceed two in number and must be removed within one year. Special tutoring may be secured.

A student deficient in more than two subjects, or who fails to remove entrance conditions within one year, may be entered as an unclassified or special student, and enroll in such courses as he may be able to undertake with profit, subject to the approval of the Dean and the instructors concerned.

Matriculation and Enrollment

ON FIRST ENTERING the College the applicant will be given an *application form*, which he may fill out assisted by the Dean or his probable Advisor. A matriculation fee of $1 H.K. must be paid to the Bursar. The applicant will then be examined and classified by the Dean and will secure from the Dean or his Advisor an *enrollment card*. In consultation with his Advisor or Dean the student will indicate the particular courses for which he expects to enroll. When this card has been signed by the Advisor and Dean, the student will take the card to the Bursar for the payment of his fees. One portion of the card, on which will be indicated the courses for which the student has registered, and which will bear the signature of the Advisor and Dean, and the receipt-stamp of the Bursar, will be returned to the student by the Bursar. The student will consult the *roster* or *schedule of classes* found on the bulletin board, and determine his own schedule for each week.

The acceptance of an applicant by the College for the first time is called his *matriculation*.

When a student enters the College after having been matriculated or re-enters the College as an old student the act is called his *enrollment*.

On going to classes for the first time, the student should exhibit his receipted enrollment card to each teacher, who may enroll him as a member of the class. In case the student is not able to present a receipted enrollment card the first time, he must show a statement from the Bursar to the effect that the payment of fees has been arranged for. *No credit* can be given for work done unless a student is properly enrolled in a class, nor can any student be permitted to attend classes without having been properly enrolled, except by special permission of the Dean. Therefore it is to the interest of each individual student to make sure that he accomplishes his own registration each semester in each class.

No change can be made in the enrollment schedule of a student after he has once enrolled, except by permission of both Advisor and Dean. As this permission will be given only for good reasons that could not ordinarily have been foreseen at the time of enrollment, students should make very sure of their schedule of courses at first enrollment. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Dean.

Students enrolling four weeks or more after the opening of a semester cannot receive full credit for work done during that semester, even though they are able to make up all work lost.

Unless specially excepted, a student must enroll in one of the prescribed groups of courses. A student may elect any subject open to his class and suitable to his line of study, provided, of course, he shall have had the prerequisite courses.

No student will be permitted to continue in the study of any subject, if the instructor in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. Any instructor may at any time exclude from his course any student, who in his judgment has neglected the work of the course.

Credits and Standing

A STUDENT IS RANKED according to the number of credits he has secured. A student having less than 30 credits shall be ranked as a *Freshman*, one having 30 but less than 65 credits as a *Sophomore*, one having 65 but less than 100 as a *Junior*, and one having 100 credits or more as a *Senior*.

At least 16 credit-hours must be attempted each semester, except in case of illness or when a student is doing other work of recognized character. A student will normally be expected to carry

about 16 to 20 credit-hours, the number of credit-hours depending upon the character of work being studied. The maximum for students in the prescribed groups is from 20 to 24 hours. For Sub-freshmen the maximum is 25 hours and the minimum is 21 hours.

Half-time teachers may not enroll for more than 12 credits in one semester, except that credit for practice teaching may be obtained in addition.

Credit may be given for work, without regard to how small the amount may be which is done at one time, provided it be of approved quality. All credit is given by points or credit-hours. In general, one credit-hour represents one hour a week of class-room work or two hours a week of laboratory or field work for one semester. Fractional credits are not granted.

Not more than 6 credits may be obtained in one semester by special extra-class or reading courses, and this privilege is limited to Juniors and Seniors. Such credits may not be given in excess of the maximum of credits for the class and course.

Credit may be secured by non-resident students for satisfactory work done by visits or by correspondence but not over thirty credits thus obtained may count toward a degree.

As a rule the College expects to give any course offered if a sufficient number of properly qualified students apply, but it reserves the right to alter or to withdraw any course.

Conditions and Failures

The passing grade is a semester mark of 70 or higher. A student receiving a grade less than 70 but not lower than 60 in any subject, or whose work is incomplete, shall be conditioned in that subject.

Such a condition received at the end of the first semester must be removed by re-examination within the first four weeks of the second semester. If received in the second semester it must be removed before the beginning of the next academic year.

A student failing to remove a condition within the prescribed time, or receiving a grade below 60, is recorded with a failure in that subject, and cannot receive credit for the subject in question unless he repeats the course in class.

Fees, Deposits and Expenses

FEES

All are in Hongkong Currency and all except Laboratory Fees are to be paid before residence is taken up.

Tuition	*1st Sem.*	*2nd Sem.*	*Year*
Sub-freshman	$100	$60	$160
Freshman to Senior	75	50	125

Laboratory (due within 5 days after registering for course)

Agriculture	
Canning and Preserving, per semester	10
Each other laboratory course, per semester*	5
Biology I and other one-semester courses	5
Biology IIa and IIb, each semester $5	10
Physics	15
Chemistry, according to course taken, varies from $5 to $20	
Home Economics laboratory fee in each course	5

The classes in cookery also pay for food actually supplied; approximately $6.00 per semester.

Piano Instruction Fee A special charge will be made to be announced later.

Trips and Camping (approximate)	6

Quarters	*1st Sem.*	*2nd Sem.*	*Year*
Usual space	$25	$25	$50
Special quarters, when available	15	15	30
Board	30	30	60
Laundry	4	4	8
Student Union	3	2	5

Registration Fee (Required of all applicants for admission to the College)	1
Guarantee Deposit	10
Gown (on entrance and whenever needed)	8
Special Examinations	
Entrance examination not at a scheduled time	4
Re-examinations except the first, or special, each subject	2

*Farm Literature and Farm Management are not laboratory courses.

Delinquency Fee

A student who is late, either in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of $2 a day, with a maximum total of $10.

B. A. Diploma Fee

A fee of $7.50 U.S. currency is required to cover the cost of the B. A. diploma from the Regents of the University of the State of New York.

Marriage and Fees

It is considered that a student who is married while his name is on the school rolls is more nearly able to pay the costs of his instruction, and hence shall pay double tuition. New students, if married, shall be liable to the same double charges unless excused by special action.

Special Students

An additional tuition fee of $20 or $40 per semester is charged any student requiring special tutoring or care, subject to the decision of the Dean.

A special student studying less than full time may pay tuition according to the number of credit-hours for which he is enrolled at the rate of $5 per credit-hour.

OTHER EXPENSES

Besides his college fees, the student will need to provide for a number of other expenses, the amount for which will vary with his personal habits. By practising economy it is possible for a student to maintain himself at the College for very little more than the cost of his college fees, board, room-rent, laundry, clothing, and necessary travel to and from his home. Books will cost about $25, but more may be spent advantageously. The College provides a sufficient amount of good and nourishing food for all students, which is covered by the boarding fee, but some students buy "extras" which increase expenses. Clothing is an item that will vary greatly with individuals.

In addition to these items, allowance should be made for class dues, literary society dues, contributions, boat and ricksha fares, medicine, stationery and postage, and other miscellaneous incidentals. $25 would be a low allowance for these incidentals for the school year, $50 would be moderate, and $100 would be liberal. Students should provide their own furniture.

No student should be deterred from entering or continuing his study at the College because of inability to meet the expenses. Special provision is made for scholarship aid and opportunities for self-help are also available.

SUMMARY OF EXPENSES

Freshman to Senior	*1st Sem.*		*2nd Sem.*		*Year*	
	Low	*High*	*Low*	*High*	*Low*	*High*
Fees	$122	$137	$95	$110	$217	$247
Laboratory	5	25			5	25
Other Expenses					50	200
Total					$227	$472

Sub-freshman	*Low*	*High*	*Low*	*High*	*Low*	*High*
Fees	$155	$170	$105	$120	$260	$290
Laboratory	15	25			15	25
Other Expenses					50	200
Total					$325	$515

Students who matriculate after the first semester has closed, pay fees at first semester rates, and in addition gown fee and deposit.

Student Aid

EMPLOYMENT BUREAU. The College maintains a student employment bureau to assist students desiring to earn a portion of their expenses and to secure positions for graduates and other students. Others desiring a position in a school in this province would also do well to apply.

The average student who undertakes outside work is not able to carry a full schedule of studies and should allow a longer period in which to complete the college course. Excellent opportunity is offered in the agricultural department to students who have completed one or two years of the course and who are willing to spend the remainder in part time employment. This enables them to secure the much needed experience for success in this field.

STUDENT LOAN FUND. A small fund has been accumulated by gifts from students, teachers and friends. This is available for the aid of deserving students in need of help. Once each month a collection is taken at Sunday service and turned over to this fund by the ushers. Students, teachers, churches, missions, missionaries, and other friends are urged to contribute to this fund. The Bursar takes care of the money.

A student wishing to borrow from this fund should send in an application, addressed to "The Manager of the Student Loan Fund," a month before the close of the previous semester. Applications sent in later than this will be less likely to be granted. Not more than $50 is loaned to one student in a year. On securing a loan the student is required to sign a note promising to repay as soon as he is able. The loans bear interest at 6 per centum per annum from the time the student's name ceases to be on the rolls of the school; the interest is compounded if not paid annually. The loan is determined by the Student Aid Committee and is secured by the student from the Bursar upon an order from the Manager. Notes are given to the Bursar and loans and interest are paid to him.

Scholarships

APPLICATIONS.

Any student or prospective student needing financial assistance should make early application to the Dean for information and application forms.

FUNDED SCHOLARSHIPS.

The following funded scholarships are awarded each year to deserving students: Taam Yau Fan (譚有芬) Scholarship, Charles T. Bagby Scholarship, Henry Martin Scholarship, and Edmunds Memorial Scholarship. These represent funds of $1,000 gold each, the interest from which is given annually as a loan to students under certain conditions.

ANNUAL GIFT SCHOLARSHIP.

Mr. Francis A. Carl, formerly Commissioner of Customs in Canton, provides an annual gift scholarship covering tuition for one student.

M. T. TANG SCHOLARSHIP IN BUSINESS ADMINISTRATION.

Through the generosity of Mr. M. T. Tang, (鄧文莊) of Hongkong, a former student, who has donated $1,500 H. K. currency for this purpose, special scholarship aid is offered to students in business administration in grants of $50 each, not subject to the loan conditions which apply to ordinary scholarship aid. Awards may be made to more than one student in any given year, and the same student may be awarded more than one unit. Special application should be made to the Dean by any desiring aid from this fund. A competitive examination may be required before an award is made.

CLASS OF 1923 SCHOLARSHIP.

The students who received their one-year junior certificates in 1920 and passed on into the Sophomore class presented to the College a scholarship fund of $1,000 H.K. currency. The income will be used as in the case of the other funded scholarships, but as long as members of the class remain in the institution, they are to be given preference in the grant of aid made possible by this scholarship.

MISSION SCHOLARSHIPS.

A student who is the son or daughter of a Christian pastor or mission worker may, on application to the Scholarship Committee, be granted the whole or part of his tuition, according to his standing.

GENERAL SCHOLARSHIPS.

In addition to the scholarships mentioned above, financial aid will be extended to those who need it as far as it is possible for the College to do this. Students are urged to confer frankly with their Advisors or the Dean on this matter, and applicants for admission who need assistance are asked to get and fill out scholarship application forms at as early a date as possible.

The amount of aid granted will be determined largely by the student's scholastic standing, but due weight will be given to his diligence, character and non-scholastic activities.

OPPORTUNITY FOR ENDOWING SCHOLARSHIPS.

Those who are interested in the problem of assisting individual students are invited to give to the College *memorial funds*, the interest on which is to be used for scholarship aid. Annual gifts of $50, $100, $150 or $200 will also make it possible to continue a liberal scholarship policy.

Rules Regulating Scholarships

Awards of scholarships are made for the full academic year, with the understanding that scholarship aid will not be continued in the second semester, unless the student has maintained his scholastic record and is regarded as worthy.

Every student receiving scholarship aid, except as a prize, is required to sign a note in recognition of the same, to be repaid as follows:

1. Any student receiving aid during his middle school course, including the Sub-freshman year, remaining through the Sub-freshman year, shall be considered to have repaid one-third of his indebtedness existing at that time.

2. Any student finishing the College course shall be considered to have repaid two-thirds of his indebtedness at the time of graduation from the College.

3 A student entering Christian work, that is, who is employed by mission societies or churches, may, on application and approval, be considered to have repaid his indebtedness at the rate of one-third of the amount owing at the time he left school for every year of such service.

4. All indebtedness not discharged according to the above conditions shall be repaid at the annual rate of one-tenth of the amount due when the student left school, or when he left the service of the mission. The first payment will be due one year from date of leaving school or mission. No money payment is necessary while the student is in the employ of a mission, or while studying for more than half time in another school.

5. All overdue payments shall bear interest at 4 per centum per annum.

Prizes

Honor Prize, awarded annually to the student who ranks highest in scholarship, deportment and attendance.

Coles Science Prize, awarded annually to the Freshman who attains the highest general average of scholarship in science, on the basis of all science work done in his Sub-freshman and Freshman years.

Coles Mathematics Prize, awarded annually to the student who has done the most meritorious work in mathematics during the year in Freshman or Sub-freshman courses.

Athletic Prize, awarded annually to the student who has done the most during the year to promote athletics.

Chambers Chinese Essay Prize, the gift of Rev. R. E. Chambers, D.D., Canton, and awarded annually to the student submitting the best essay in Chinese.

Certificates

Honor Certificates

A student who maintains an exceptionally high standing may be declared an honor student and receive an Honor Certificate at the commencement exercises of the year. The number of such honor students may not exceed five per centum of the total number of students enrolled. The awards are made chiefly on the basis of scholarship, but due weight is given to diligence, non-scholastic activities and personal character.

Certificates for Work Completed

Students who wish to pursue professional study elsewhere will be given complete and detailed certificates for the work done at this College up to the last semester they have completed, and every attempt will be made to secure for them proper standing at the school to which they go.

Transcripts of academic records, after the first, will be charged for at the rate of two dollars ($2.00) H.K. currency each.

Junior Certificates

When a student has completed 36 credits of collegiate work and has removed all entrance conditions, thus completing the Freshman year, he may be awarded a one-year *Junior Certificate*. One-year junior certificates will not be awarded after 1921.

Beginning with the year 1922, a two-year Junior Certificate may be awarded a student who has completed 65 or more collegiate credits in any one of the groups of courses and who has no entrance conditions. In the case of the Pre-medical and Pre-theological groups, the student must have completed the full course of study as outlined in order to receive a junior certificate for the groups.

Graduation and Diplomas

DEGREE OF BACHELOR OF ARTS

In order to qualify as a candidate for graduation from the College of Arts and Sciences and for the Degree of Bachelor of Arts, a student must have completed 140 credits* of collegiate work, including the prescribed amount of work in each course as required in the group in which he seeks his degree. A student who is a candidate for a degree in the Agricultural Group must present a thesis which has been approved by the Director of Agricultural Work.

Candidates for a degree must be students in good standing and must have been in residence for at least two semesters immediately preceding candidacy.

Candidates for a degree must be recommended by the Faculty of the College of Arts and Sciences and approved by the Representative of the Regents of the University of the State of New York. The diploma is given by the Regents of the University of the State of New York, upon recommendation from the Trustees of the Canton Christian College. A diploma fee of $7.50 U.S. currency is charged.

The degree is conferred upon a successful candidate at the commencement next following the completion of his course of study and other requirements.

Graduate Study

At present, the College offers but limited facilities for graduate study. The regulations covering this work may be learned on application to the Dean.

Graduate Standing Abroad

Graduates of the Canton Christian College, upon presentation of a B.A. diploma and transcript of academic record, will be admitted, on recommendation of the Dean, without examination into the graduate schools of Columbia University, Yale University, University of California, University of Wisconsin, Johns Hopkins

* One credit is represented by one hour recitation or two hours laboratory work per week for one semester.

University, Cornell University, University of Chicago, University of Illinois, University of Michigan, University of Minnesota, University of Washington, University of Toronto, and others, on substantially the same basis as graduates of other accredited colleges and universities in America.

Ordinarily undergraduate students may transfer to corresponding class in American universities in similar courses without loss of standing.

By action of the Court of the University of Hongkong, the work and examinations of the premedical course of Canton Christian College is recognized by the University for purposes of admission to the Medical Faculty. This signifies that premedical students of Canton Christian College are exempted from the matriculation and first medical examinations of the University of Hongkong.

General Regulations

Note: For additional regulations and details, see the Bulletin of Regulations and Information.

EVERY STUDENT under this faculty must engage regularly in some *athletic work* or drill. Sub-freshmen may be required to serve as officers in the middle school battalion.

All students are required to attend *daily chapel* and *Sunday morning exercises*.

Students are expected to wear *academic dress* at the first religious service of the College on the second Sunday of each month, and at other times on request.

Permission for *absence* from classes must be obtained from both the instructor of the class and the attendance officer before the absence.

Excepting absences caused by illness or late enrollment, excused absences in any course in one semester are limited to *one more than* the credit-hours in that course. Loss of credit and standing will follow any exceeding of this limit.

No Freshman or Sub-freshman is allowed to leave the campus at any time during the session without a permit from the attend-

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ance officer. Freshmen, Sub-freshmen and unclassified students are responsible to the Attendance Officer for absences; other students are responsible to their advisors. Sub-freshmen and Freshmen are limited to one absence in two weeks for personal reasons. Sub-freshmen and Freshmen are not permitted to call boats and travel on the river without a permit from the attendance officer.

Students leaving College without due permission may forfeit all rights and privileges as students and can not ordinarily be received again except by special action of the Faculty.

Grades are made up at the end of each semester by a combination of examination grades, daily grades, and grades for other work. Instructors may be asked also in the middle of the term for an estimate of the student's standing. A grade of 70 or higher is a pass, one of 60 to 69 is a condition, and one below 60 is a failure.

The Faculty endeavors to arrange frequent *lectures* by specialists upon subjects of general interest to the faculty and students. Lectures and entertainments on Saturday evenings are provided. These are usually also open to middle school students.

Every student is on his *honor* to do his own work on examinations and other work for which credit is sought. Obtaining or giving of aid in such work is considered dishonest.

Students are permitted to study in the *dormitory* and their rooms are to be open for inspection at any time, and should be kept neat, orderly and quiet. No dining is allowed in the dormitory rooms, except in dining rooms, nor may any food be stored in the dormitory.

Occupants of rooms in Java Hall may secure keys for their rooms on application to the Dean. A deposit of $1 H. K. currency is required for each key issued, which deposit is refunded when the key is returned.

The management of the *Boarding Department* is in the hands of a committee of the Student Union elected each semester, subject to the final authority of the Council committee consisting of the Bursar and the Dean.

Organizations

The formation of any student organization on the College grounds must be approved by the executive of the school concerned. Such approval must also be obtained for its constitution, regulations,

fees, and activities; likewise for any subsequent changes in the same. Every organization must provide for a faculty advisor and have all publications approved by the Dean. Every organization must report promptly to the Dean the officers selected from time to time. A list of the college organizations is given elsewhere in this catalogue.

No secret societies may be formed, except under special regulations.

Finances

The annual or semester budget of each general student organization (that is, one composed of a majority of the students in any school), and of each student organization with an annual budget of over $200 H. K. currency must be approved beforehand by the executive of the school concerned.

All accounts of such organizations, and of teachers' organizations, must be audited, as soon as closed for the year or semester, by the College Auditor and a copy filed with the Bursar. Any unbusiness-like use of funds must be reported by the Auditor to the President and any serious departure from the budget to the executive who approved it.

Smaller student organizations or classes must keep their expenditures within their regular fees. For breaches of these rules, the president and treasurer of the organization will be held personally responsible.

The raising of money or soliciting of subscriptions by any individual or organization on the College grounds without the consent of the President is strictly prohibited.

Meetings

Meetings of the student body or general student organizations may be held after obtaining permission of the executive of the school concerned, and after positing a notice of the meeting in both English and Chinese on the bulletin board of the school concerned, or having it announced at the proper chapel service. Permission for regularly scheduled meetings may be obtained in advance for a whole year, until changes are made.

Whenever the Auditorium in Swasey Hall is to be used for any purpose it is necessary to reserve the use of it by application to the President.

The word "meeting" in all cases includes parades and celebrations.

Regulations for College Women

1. College women, except daughters of the staff, should all live in dormitories. Special permission to live elsewhere may be given to near relatives of the Staff, but for this the consent of the President is necessary.
2. Young women may go to Canton only with a chaperon, except under special permission based upon the written request of parent or guardian.
3. Young women must be back on the campus before 6:30 p.m. between November and February inclusive; all other months before 7:30 p.m.
4. Young women may not under any circumstances enter the men's dormitories or the space within the dormitory quadrangle.
5. Young women may not take walks after dark.
6. Young women may receive callers in the reception room of their dormitory until 7:30 p.m. any evening, and on Sundays and Mondays until 9:30 p.m.
7. All permits for absence from classes or other required college activities are issued by the Attendance Officer and are not valid until endorsed by the Dean of Woman.
8. Permits for other absences are given by the Dean of Women, but no permits for Freshmen or Sub-freshmen can be issued for personal reasons oftener than once in two weeks.
9. For all other academic matters, women students will consult the class advisor.
10. College women are responsible directly to the Dean of Women for their personal conduct and relationship to the College.

General Statement of Courses

Seven groups of subjects are offered in the College of Arts and Sciences: General Arts, Natural Sciences, Chemistry, Agriculture, Pre-medical and Pre-theological. All of these courses presuppose the Canton Christian College Middle School course or its equivalent.

General Arts Group (*Four Years*)

Those students who desire a liberal education preparatory to entering such professions as middle school taaching, translating, interpreting, journalism, literary work, lecturing, religious service, and the like, will find it best to follow, in the main, the General Arts course.

Natural Science Group (*Four Years*)

Those students who look forward to a scientific and technical career, such as biological research, chemical and physical engineering.

Chemistry Group (*Four Years*)

The constantly increasing service of Chemistry in industry and civilization, as well as its specific application to many of the new problems of China's productivity and economic welfare, turn an increasing number of students to its study and practice.

Social Science Group (*Four Years*)

Those seeking to prepare for business, law, banking, foreign commerce, statistical research, social and government service, etc., will get the best preparation by following the Social Science group of studies.

Agricultural Group (*Two Years or Four Years*)

The aim of the college courses in Agriculture is to give the student such experience in the field and theoretical knowledge that he can appreciate the problems of the peasant and really help him. Each

student puts into practice in a garden of his own the ideas he learns in studying horticulture. He is also instructed in marketing. For the courses in animal husbandry there are on the campus foreign dairy cows, dairy and work carabao, hogs, horses and poultry.

The student who plans to take only the Junior Certificate in Agriculture is directed primarily into the courses dealing with agricultural production. If he is planning, upon the completion of this short course, to enter either educational or commercial phases of agriculture he is advised to take also some courses in education or business.

The four-year student in agriculture is required to carry the science courses necessary to fit him for more advanced work in agricultural education and research. He is allowed a wide range of options in science, education, economics and business and is assigned special problems in agricultural investigation.

Pre-medical Group (*Two Years*)

The Pre-medical group of studies aims to prepare students for entrance to the best medical colleges of China and abroad, and seeks to maintain a standard sufficient to enable those who have completed the sophomore year in this group with distinction to enter directly such institutions as the Peking Union Medical College and the Hunan-Yale College of Medicine. Students completing this course will be awarded a Junior Certificate in Pre-medical Subjects. It is recommended, however, that pre-medical students proceed to the bachelor's degree before undertaking a regular medical course.

Pre-theological Group (*Two Years*)

This course, covering freshman and sophomore years, is outlined elsewhere. Students completing this course will be given a two-year Junior Certificate in Pre-theological Subjects, admitting them without examination to the Divinity School of the Union Theological College of Canton.

Affiliation with the

Theological Seminaries in Canton

Arrangements have been made with the Canton Union Theological College and with the Graves Theological Seminary of the Southern Baptist Convention Mission, Canton, whereby students of the Canton Christian College may elect certain courses at either seminary and secure credit both towards a degree from the College and a diploma from the seminary. A reciprocal privilege is enjoyed by students of the two seminaries. Full details as to this matter may be obtained on application to the Dean of the College of Arts and Sciences, or to the president of either seminary.

Required and Elective Courses

IN ALL GROUPS, certain courses are required of all students. The required courses are found chiefly in the lower classes of the College, but even here a wide range of electives is offered. In general, a student may take any course which is open to members of his class in any group, provided he shall be taking the required work in his own course and shall have had the prerequisite work in the subject.

In the following tables the studies are indicated which are open to a student for each semester in the College. The student should first enroll in the prescribed courses, if possible. No student can become a candidate for a degree unless he shall have completed his required courses or their equivalent.

Courses designated by a small letter *a* or *b* following the course number, e.g., English Ia and Ib, are year courses, and ordinarily the entire course must be completed before credit can be counted toward a certificate or degree.

Prescribed Subjects for Degree

In order to be eligible for the B.A. degree, the student must present *at least* the following credits in prescribed subjects:

General Arts Group

English	16	credits
History	12	,,
Economics	8	,,
Religion	8	,,
Chinese	16	,,
Science	10	,,
Psychology	3	,,
Philosophy	3	,,
Government, Sociology, History or Economics	6	,,
Total prescribed	82	,,

Natural Science Group

English	8	credits
Science*	54	,,
Mathematics	8	,,
Religion	8	,,
Chinese	8	,,
Total prescribed	86	

Chemistry Group

English	8	credits
Chemistry	65	,,
Other Science as specified	15	,,
Mathematics	24	,,
Economics	8	,,
Religion	8	,,
Chinese	8	,,
French or German	10	,,
Total prescribed	146	,,

Social Science Group

English	8	credits
Economics	14	,,
History	12	,,
Science	10	,,
Religion	8	,,
Chinese	12	,,
History, Government, Economics, Business or Sociology	24	,,
Total prescribed	88	,,

Agricultural Croup

Agricultural Courses	63	credits
Biology	10	,,
Composition in Chinese	16	,,
Chemistry	18	,,
Economics	3	,,
English	2	,,
Religion	8	,,
Total prescribed	120	,,

* At least 12 credits must be presented in each of the following sciences: Biology, Chemistry and Physics.

Sub-freshman Courses

(PREREQUISITE TO ALL GROUPS)

General Arts, Natural Science, Chemistry, Social Science and Pre-theological Groups

First Semester Subject	Hrs.	Second Semester Subject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
History A	3	History B	3
Religion A	1	Religion B	1
Chinese A	3	Chinese B	3
Elective, not less than	4	Elective, not less than	4
to be selected from		to be selected from	
†English C		†English	
Mathematics A	4	Mathematics A	4
Business A	4	Business B	4
Sociology	3	Sociology B	3
Chinese C	2	Chinese D	2
Total not less than	22	Total not less than	22

Agricultural Group

First Semester Subject	Hrs.	Second Semester Subject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
Farm Crops A	‡4	Animal Husbandry B	⁋3
Religion A	1	Religion B	1
Chinese A	3	Chinese B	3
Elective	3 to 6	Elective	3 to 7
to be selected from		to be selected from	
†English C		†English D	
Mathematics A	4	Mathematics B	4
Business A	4	Business B	4
Sociology A	3	Sociology B	3
Chinese C	2	Chinese D	2
Total	23 to 25	Total	21 to 25

*4 hours class-room, 4 hours laboratory or field work, 6 credit-hours.

†English C and D may be required of any student upon recommendation of the instructor in English A and B and is open to no others.

‡2 hours class-room, 4 hours field work, 4 credit-hours.

⁋2 hours class-room, 2 hours field work, 3 credit-hours.

PRE-MEDICAL GROUP: See page 53.

SUMMARY OF COLLEGE COURSES

GENERAL ARTS GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	2	Chinese	2
	English Ia	4	English Ib	4
	History Ia	3	History Ib	3
	Biology I	3	Religion I	2
	Economics Ia	4	Economics Ib	4
	Elective, not more than	4	Elective, not more than	5
Sophomore	Chinese	2	Chinese	2
	English	3	English	3
	History	3	History	3
	Religion		Religion	
	†Science		†Science	
	Electives		Electives	
Junior	Chinese	2	Chinese	2
	English		English	
	Religion		Religion	
	Electives		Electives	
Senior	Chinese	2	Chinese	2
	Psychology	3	Philosophy I	3
	English		English	
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†A course in Science (Biology, Chemistry or Physics) is required of Sophomores who have not had a full year's course in a College science.

SUMMARY OF COLLEGE COURSES

NATURAL SCIENCE GROUP

(Maximum 22, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	†Chinese	2	†Chinese	2
	Biology IIa	4	Religion I	2
	Chemistry Ia	6	Biology IIb	4
	English Ia	4	Chemistry Ib	6
	Elective, not more than	6	English Ib	4
			Elective, not more than	4
Sophomore	†Chinese	2	†Chinese	2
	Physics, Chemistry or Biology		Physics, Chemistry or Biology	
	Religion		Religion	
	Electives		Electives	
Junior	†Chinese	2	†Chinese	2
	Religion		Religion	
	Science		Science	
	Electives		Electives	
Senior	†Chinese	2	†Chinese	2
	Science		Science	
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†At least 8 credits in Chinese must be completed by candidates for a degree.

SUMMARY OF COLLEGE COURSES

CHEMISTRY GROUP

(Students in this group may elect only the courses specified below.)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	2	Chinese	2
	Mathematics I	4	Mathematics II	4
	English Ia	4	English Ib	4
	Biology I	3	Religion I	2
	Chemistry Ia	6	Chemistry Ib	6
	Total	19	Total	18
Sophomore	Mathematics III	4	Mathematics IV	4
	German Ia or French Ia	5	German Ib or French Ib	5
	Physics Ia	6	Physics Ib	6
	Chemistry IIa	5	Chemistry IIb	4
	Total	20	Total	19
Junior	Chinese	2	Chinese	2
	Mathematics V	4	Mathematics VI	4
	Religion IIIa	2	Religion IIIb	2
	Chemistry IIIa	4	Chemistry IIIb	4
	Chemistry VIIa	7	Chemistry VIIb	8
	Total	19	Total	20
Senior	Economics Ia	4	Economics Ib	4
	Religion	2	Chemistry XIb	6
	Chemistry XIa	7	Chemistry XII	3
	Elective	(13)	Electives	(13)
	Chinese	2	Chinese	2
	Chemistry Va	3	Chemistry Vb	4
	Mineralogy	3	Mineralogy	3
	Chemistry IX	4	Chemistry VIII	4
	Total not over	19	Chemistry X	4
			Total not over	19

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

SUMMARY OF COLLEGE COURSES

SOCIAL SCIENCE GROUP

(Maximum 20, Minimum 16 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	¿Chinese	2	¿Chinese	2
	English Ia	4	English Ib	4
	History Ia	3	History Ib	3
	Biology I	3	Religion I	2
	Economics Ia	4	Economics Ib	4
	Elective, not more than	4	Elective, not more than	5
Sophomore	¿Chinese	2	¿Chinese	2
	Economics	3	Economics	3
	History	3	History	3
	Religion		Religion	
	†Science		†Science	
	‡Electives		‡Electives	
Junior	¿Chinese	2	¿Chinese	2
	Religion		Religion	
	‡Electives		Electives	
Senior	¿Chinese	2	¿Chinese	2
	‡Electives		‡Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†A course in Science (Biology, Chemistry or Physics) is required of Sophomores who have not had a full year's course in a College science.

‡Chiefly from courses in History, Economics, Government, Business Administration, Philosophy and Sociology

¿At least 12 credits in Chinese must be completed by candidates for a degree.

SUMMARY OF COLLEGE COURSES
AGRICULTURAL GROUP
(Maximum 22, Minimum 18 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	2	Chinese	2
	Chemistry Ia	6	Chemistry Ib	6
	Biology IIa	4	Biology IIb	4
	English IIa	1	Agricultural Literature I	2
	Animal Husbandry I	3	English IIb	1
	Farm Crops I	3	Farm Equipment I	2
	Agricultural Electives:		†Religion I	2
	Forestry I	2	Agricultural Elective:	
	Horticulture I	2	Horticulture II	2
Sophomore	Chinese	2	Chinese	2
	†Religion	2 or 3	†Religion	2 or 3
	Economics II	3	Animal Husbandry II	4
	Chemistry IV	6	Horticulture IV	3
	Horticulture III	3	Agricultural Electives:	
	Agricultural Electives:		Animal Husbandry IV	3
	Animal Husbandry VI	2	Chemistry VI	7
			Biology VIII	3
Junior	Chinese	2	Chinese	2
	†Religion	2 or 3	†Religion	2 or 3
	Biology IIIa	3	Biology IIIb	3
	Animal Husbandry III	3	Farm Crops II	3
	Farm Experience	4	Plant&Animal Breeding	3
	Agricultural Electives:		Agricultural Electives:	
	Chemistry XIV	4	Chemistry X	4
	Animal Husbandry VII	3	Animal Husbandry IX	3
	Horticulture V	3	Farm Equipment II	3
	Biology XIV	3	Biology VI	3
Senior	Chinese	2	Chinese	2
	Irrigation and Drainage [Ia	2	Irrigation and Drainage [Ib	2
	Soils I	3	Soils II	3
	Farm Management I	3	Thesis	
	Agricultural Electives:		Agricultural Electives:	
	Animal Husband. VII	2	Animal Husbandry V	3
	Canning and Preserv- [ing Ia	3	Farm Management II	3
	Biology XII	3	Canning and Preserv- [ing Ib	3
			Forestry II	3
			Horticulture VII	3
			Biology VII	4

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†Eight credits in Religion are required for a degree.

‡At least 8 credits in Chinese must be completed by candidates for a degree.

SUMMARY OF COLLEGE COURSES

PRE-MEDICAL GROUP

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Sub-Freshman	English A	5	English B	5
	Physics A	6	Physics B	6
	Religion A	1	Religion B	1
	Chinese A	3	Chinese B	3
	Chinese A	2	Chinese B	2
	Mathematics A	4	Mathematics B	4
	History A	3	History B	3
	Total	23	Total	23
Freshman	Chemistry Ia	6	Chemistry Ib	6
	Biology IIa	4	Biology IIb	4
	Chinese	2	Chinese	2
	English Ia	4	English Ib	4
	German Ia	5	German Ib	5
	Total	21	Religion I	2
			Total	23
Sophomore	Physics Ia	6	Physics Ib	6
	Chemistry IV	6	Chemistry VI	7
	Chinese	2	Chinese	2
	Biology XIa	6	Biology XIb	4
	Total	20	Biology XII	3
			Total	22

NOTE: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

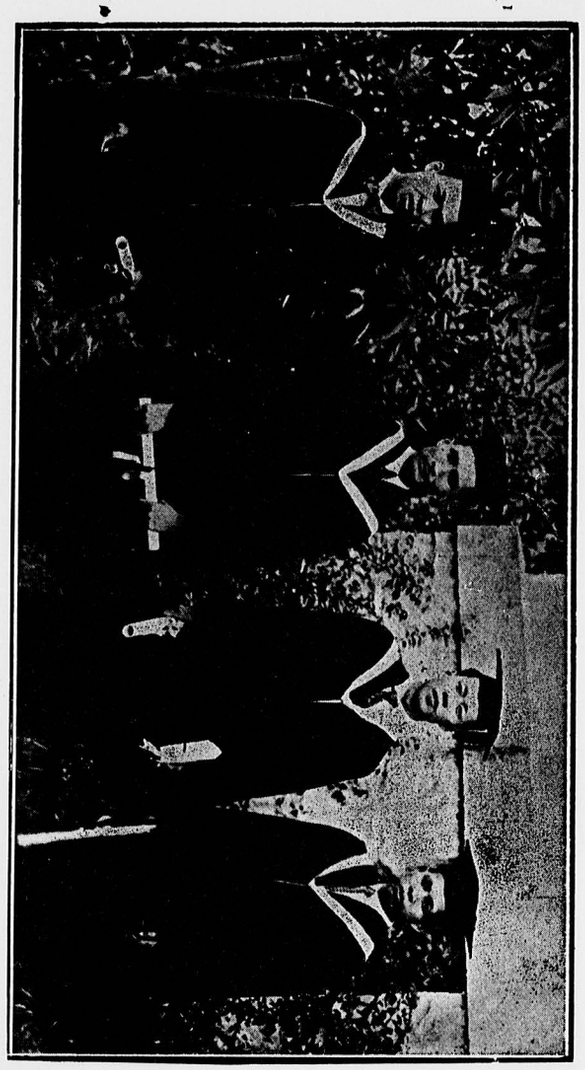
SUMMARY OF COLLEGE COURSES

PRE-THEOLOGICAL GROUP

(Maximum 20, Minimum 18 credit-hours)

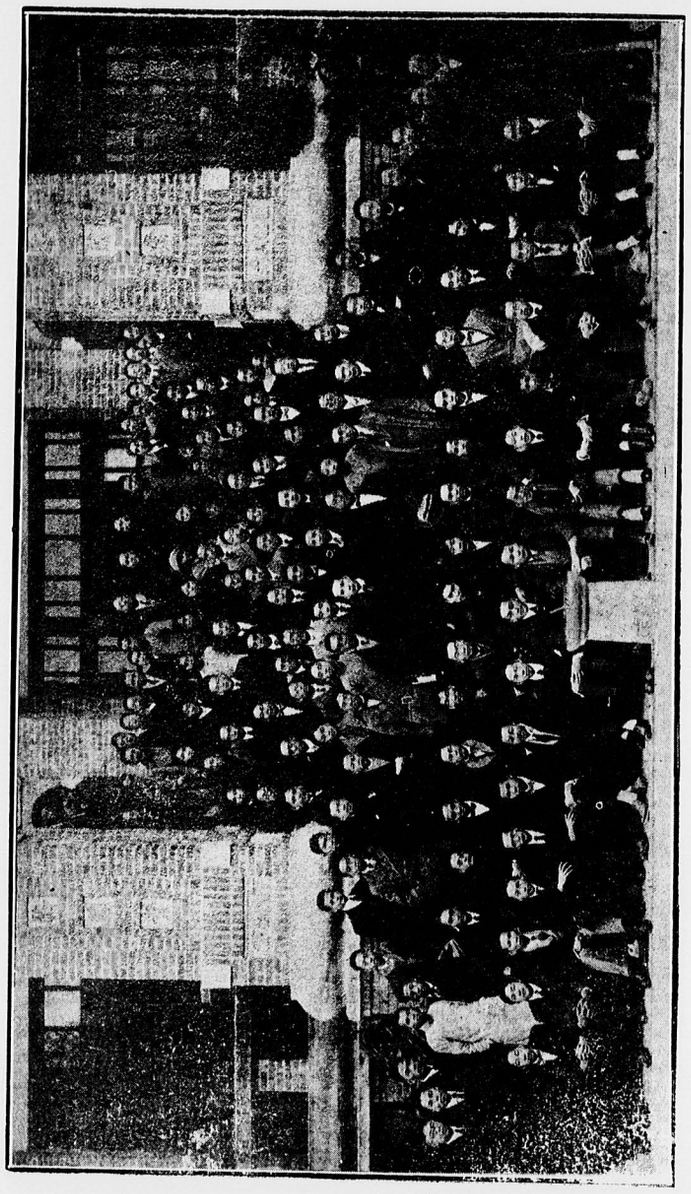
Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	6	Chinese	6
	English Ia	4	English Ib	4
	Biology I	3	Biology XII	3
	Philosophy V (Logic)	3	Social Science	3
	Greek Ia	2	Greek Ib	2
	Religion Va	2	Religion Vb	2
	Total	20	Total	20
Sophomore	Chinese	4 to 6	Chinese	4 to 6
	Psychology	3	Philosophy III (Ethics)	3
	Philosophy	3	Sociology	3
	Greek IIa	3	Greek IIb	3
	Religion IIIa	2	Religion IIIb	2
	History Ia	3	History Ib	3
	Total	18 to 20	Total	18 to 20

NOTE: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.



B. A. Graduates, June 1920

Hoh Hung Ping — Yeung Kwok Tsuen — Chan Shau Yi — Lau Kai Tso



STUDENTS OF COLLEGE OF ARTS AND SCIENCES
1920-21

COURSES OF STUDY IN DETAIL

AGRICULTURE

PROFESSOR G. W. GROFF; ASSOCIATE PROFESSOR C. O. LEVINE; MR. TAAM SIK HUNG; MR. W. L. FUNKHOUSER; MR. F. A. MCCLURE; MR. FU PO KWONG.

THE CANTON CHRISTIAN COLLEGE has an ideal location and excellent facilities for the work of the various agricultural courses. It is situated just within the tropics, in the heart of the great Canton Delta, famous throughout the world for its intensive agriculture; within this are grown a wide range of sub-tropical and temperate plants. The College is also in close proximity to the wonderful markets of Canton, where are found in season a wide variety of products of this and other provinces.

The College has a campus of one hundred and fifty acres, about sixty of which are devoted to modern farming, market gardening, fruit culture, grain growing, dairying, stock-raising, etc. The remainder of the campus is devoted to buildings and layout of grounds, on which will be found a large selection of native and foreign trees and shrubs. In the immediate vicinity of the College are the farms of scores of villages, which devote themselves almost entirely to agricultural pursuits. The Kwangtung Agricultural Experiment Station, with more than sixty acres of land, is directly across the river from the College and is easily accessible. The agricultural staffs of the two institutions are in close touch with each other and co-operate in various undertakings.

The College is also in co-operation with the United States Department of Agriculture and with the government of the Philippines. Important agricultural investigations are being carried on. The agricultural staff of the College is also directly associated with several state agricultural institutions in the United States. These connections offer to faculty and students every facility for keeping in touch with the most advanced methods of agriculture and for transmitting from one country to the other desirable agricultural practices.

Agricultural Literature

I. Agricultural Literature. Much valuable agricultural information is not available to the average student because he is not acquainted with the agricultural literature of his own and other countries. This course is designed to assist the student in finding these sources of material. The preparation of a bibliography of the available literature of various phases of agriculture is required.

Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

Animal Husbandry

The courses in Animal Husbandry are so arranged as to give the student special instruction in the selection, breeding, feeding, marketing, and management of all kinds of live stock. Attention is given to sanitation and the treatment of the more common forms of diseases to which animals are subject. The student is taught to study the animal from the standpoint of the breeder and the feeder. The college live stock includes poultry, hogs, buffaloes both for milk and draft purposes, modern breeds of horses and dairy cows. A model dairy of thirty-five buffalo and foreign cows supplies milk to the community. The management of this dairy offers practical demonstration to students interested in dairying.

B. Farm Animals. An introduction to the courses in Poultry and Live Stock which follow. Acquaintance with the various breeds and classes of farm animals; practice in judging and handling of farm animals.

Harper: Animal Husbandry for Schools.

Class-room 2 hours, field 2 hours (3 credits); one semester.

I. Stock Judging. Horses, beef cattle, water buffalo, and hogs.

Gay: Principles and Practice in Live Stock Judging.

Class-room 2 hour, field 2 hours (3 credits); one semester

II. Poultry Production. General problems of poultry raising including incubation, housing, etc. The field work consists of the actual care of flock by the students, under the supervision of an instructor.

Lippincott: Poultry Production, supplemented with lectures and bulletins.

Class-room 2 hours, field 4 hours (4 credits); one semester.

III. Dairying. Dairy live stock judging and dairying; sanitation and live stock buildings.

Eckels: Breeds of Dairy Cattle.

Wing: Milk and its Products. Lectures and bulletins.

Class-room 2 hours, field or laboratory 2 hours (3 credits); one semester.

IV. Principles of Feeding. The digestive system and the process of nutrition; theory of practical economy of rations, both for maintenance of and fattening all classes of animals. Practical training is given the student in feeding live stock owned by the College.

Henry and Morrison: Feeds and Feeding.

Class-room 2 hours, practical work 2 hours (3 credits); one semester.

V. Diseases of Farm Animals. Common diseases of farm animals. The subject includes wounds and their treatment, examination of animals for diseases, diagnosis and treatment of diseases. Practice in castration, spaying, and caponizing. Instruction in obstetrics, care of mother at parturition and diseases affecting mother and offspring. Microscope studies in the laboratory are made of the organisms and parasites associated with diseases. Sanitation, and other measures necessary for the prevention of diseases. Prerequisites: Animal Husbandry B and I.

Craig: Common Diseases of Farm Animals.

Class-room 2 hours, field or laboratory 2 hours (3 credits); one semester.

VI. Meats. Killing, dressing, and curing of beef, pork, mutton, and poultry. Prerequisites: Animal Husbandry B and I.

Lectures, supplemented with bulletins.

Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

VII. Poultry Breeding. Breeds of poultry, native and foreign. Principles of breeding and judging poultry.

Prerequisite: Biology I and IIb.

Class-room 2 hours, field 2 hours (3 credits); one semester.

VIII. Records and Pedigrees. Methods of recording the breeding of farm animals, the value of pedigreed stock, and a comparison and study of the pedigrees of notable animals of the various breeds.

Texts: Herd Books and references.

Class-room 1 hour, laboratory 2 hours (2 credits); one semester.

IX. Hogs. The principles governing the raising of market hogs with special attention to types of hogs, prevention of disease, selection and care of breeding stock, feeding, etc.
DAY: Productive Swine Husbandry.

Class-room 2 hours, practical work 2 hours (3 credits); one semester.

Canning and Preserving

Ia and Ib. A practical course in canning and preserving garden and orchard products.

Class-room 1 hour, laboratory 4 hours (3 credits); two semesters.

Farm Crops

A. Garden and Field Crops. An introduction to the practical work of growing garden and field crops. Special emphasis is given to gardening and each student is required to maintain in cultivation a piece of ground which is assigned to him.

Class-room 2 hours, field 2 hours (3 credits); one semester.

I. Specialized Gardening. In this course the student grows and studies crops, especially vegetables, that are in special demand on the city markets. Vegetables that are new to southern China are also grown and studied.

Class-room 2 hours, field 2 hours, (3 credits); one semester.

II. Cereals, Grasses and Fiber Crops. A study of cereals, grasses and fiber crops adapted to this region. These plants will be considered from the point of view of grain, forage and fiber production.

Class-room 2 hours, field work 2 hours (3 credits); one semester.

Farm Equipment

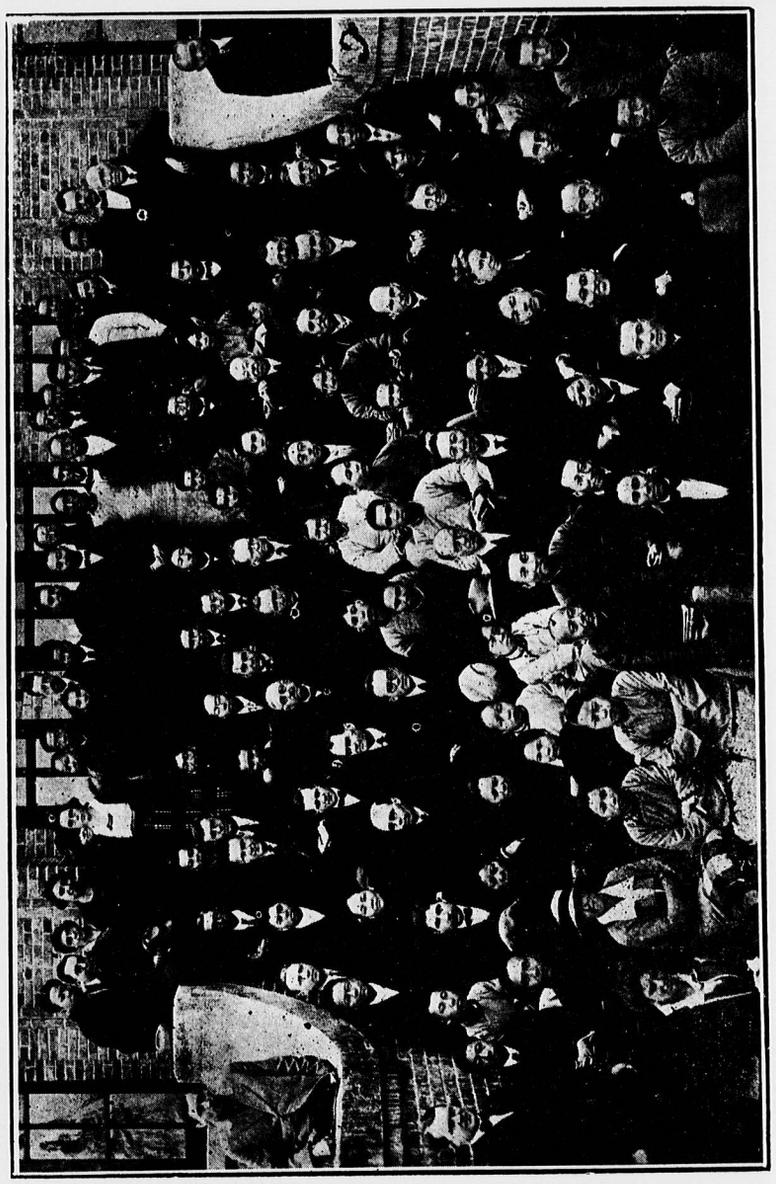
I. Field Equipment. The mechanical principles of different types of farm machinery, and the proper adjustment and operation of machinery in the field.

DAVIDSON AND CHASE: Farm Machinery and Farm Motors.

Class-room 1 hour, field and laboratory 2 hours (2 credits); one semester.



WOMEN STUDENTS. 1920-21



ENTIRE STAFF OF CANTON CHRISTIAN COLLEGE. 1920-21

II. STATIONARY EQUIPMENT. Special attention to stationary machinery, such as grinding, milling, and pumping machinery, and engines. The construction of farm machinery, and the grinding and repairing of tools is taken up in the laboratory. Prerequisite: Farm Equipment I.

RAMSOWER: Equipment for the Farm and Farmstead.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

Farm Experience

A first hand knowledge of farm conditions and farm work is essential to the development of the fullest efficiency of those intending to do work along agricultural lines. For this reason a minimum of two months of actual farm experience is required of all agricultural students qualifying for a college degree. This work should be carried out during vacation periods and must be completed before the student registers for his senior year. For those qualifying for a junior certificate in agriculture, one month of such work, completed before the student registers for his sophomore year, is required.

(4 credits toward college graduation. 3 credits toward junior certificate.)

Farm Management

I. GENERAL MANAGEMENT. The purpose of this course is to assemble and correlate the principles involved in the agricultural courses taught in the institution, paying special attention to types of farming, labor questions and farm accounting. Practical experience is secured by assisting in the management of the college farm and livestock.

Class-room 2 hours, practical work 3 hours; (3 credits); one semester.

II. MARKETING. Factors essential to successful marketing of all kinds of farm produce. The value of refrigerator cars and ships, cold storage, proper packing for transportation, etc. Practical experience is secured in marketing the college farm products.

Class-room 2 hours, practical work 2 hours, (3 credits); one semester.

Forestry

I. Dendrology. A study of trees and shrubs in the vicinity of the college with a view to identification under fall and winter conditions. Students other than those studying agriculture will find this a useful course.

Class-room 1 hour, field 2 hours, (2 credits); one semester.

II. Forest Practice. Propagation of forest trees; nursery methods and practices; the cultivation of wind breaks. Forest protection, etc. Bulletins and reference reading.

Class-room 2 hours, field 2 hours, (3 credits); one semester.

Horticulture

The courses in horticulture are so arranged as to give the student instruction in growing and marketing vegetables, flowers and fruits. A wealth of illustrative material for the classes in horticulture is found in the large collection of foreign and native species growing upon the College campus, in the lychee and citrus orchards to the south of the College, in the extensive vegetable gardens close at hand, and in the commercial flower gardens at Fati. Each student is required to maintain a garden of his own where he can put into practice the ideas received. Farm Crops A serves as an introduction to the courses in horticulture. In this course the student practices propagation from seed and cuttings and learns the varied requirements of different garden crops.

I. Floriculture. A practical course in flower gardening. The aim of the course is to train students in the selection and care flowers and plants for the home and garden. Methods of propagating, potting and planting are taught in the laboratory. Students other than those studying agriculture may elect this course.

Class-room 1 hour, garden work 2 hours (2 credits); one semester.

II. Landscape Gardening. This course gives to the student an idea of some of the requirements for beautifying homes and parks by the proper planting of flowers, trees and shrubs. The various characteristics of plants are studied, with their grouping. Students are given some practice with the transit and level in the laying out of walks, etc. Planting plans are required in field work.

Waugh: Landscape Gardening.

Class-room 1 hour, field 2 hours (2 credits); one semester.

III. Garden and Orchard Management, The problems and possibilities of the market garden, the necessary equipments soil requirements and sanitary methods of fertilization. Methods of starting early fall vegetables and flowers by protecting the seedling, from the intense heat of late summer form a prominent place in the course. Systems of cropping; methods of tilling; irrigating; grading, packing and marketing. Bulletins and reference work.

Watts: Vegetable Gardening.

Class-room 1 hour, field work 4 hours (3 credits); one semester.

IV. Plant Propagation. The natural and cultural methods of propagation; seeds; seed testing and seed growing; the production of seedlings for stock; grafting, budding and layering; the making of cuttings; special requirements for propagating and growing commercial fruits and ornamental trees and shrubs.

Kains: Plant Propagation, Greenhouse and Nursery Practice.

Class-room 2 hours, field work 2 hours (3 credits); one semester.

V. Fruit Culture. Elective. A more specialized course in fruit growing, with special reference to the lychee and lungan, the citrus fruits and the papaya. An analytical study of the *Sapindaceæ* and *Rutaceæ* families of plants is conducted with the object of enabling the student to classify properly the fruits of these families, and of showing the student the possibilities of using the near and wild relatives of these fruits in propagating and hybridizing. A study of varieties is included. Low-land fruit culture as practised in the delta regions of Kwangtung compared to hill culture as practised in the United States.

Class-room 1 hour, field work 4 hours (3 credits); one semester.

VI. Seed Growing and Nursery Practice. This course is designed to acquaint the student with the problems connected with the growing and sale of carefully selected seeds and plants. The significance of the development of this work in China is treated with special emphasis.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

Irrigation and Drainage

Ia and Ib. Irrigation water supply; construction of canals, reservoirs and ponds; pipe lines. Methods of applying water to various crops. Drainage, rainfall and evaporation; advantage and methods of draining retentive soils. Farm mechanics. Pumps, devices and appliances used in irrigating; making tile drains, etc. Map drawing of farm layouts. Farming.

WILCOX: Irrigation Farming.

MILES: Land Drainage.

Class-room 1 hou, field work 2 hours (2 credits); two semesters

Plant and Animal Breeding

I. PRINCIPLES OF SELECTION AND BREEDING. The dependence of man upon domesticated animals and cultivated plants; the origin of domesticated animals from the wild; effect of natural selection; unit characters; variability of single characters; transmission of characters; heredity and environment; systematic improvement of animals and plants. The student is urged to devote his attention in the field to either plants or animals. The work on the papaya and rice being carried out on the campus offers ideal facilities in plant breeding, and the work with hogs, poultry and cattle affords similar opportunity.

Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

Soils

I. SOIL PHYSICS. Microscopic study of soil particles, taking soil samples; determination of capillary moisture; influence of color on soil temperature; variation of soil temperature at different depths; the absorption of heat by soils; the effect of lime upon soil; determination of the weight of soil per acre; effect of humus on the water-holding capacity of soils; rate of rise of capillary water from soils; the effect of organic matter on the baking of soil. Mechanical analysis of soils.

LYON, FIPPIN AND BUCKMAN: Soil Physics.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

II. SOIL FERTILITY. The study of food combinations of plants; the effect of different crops and different systems of farming upon the depletion of soil fertility; the proper methods of handling, preserving, and applying barnyard manure and night soil; the determination of the needs of soil for commercial fertilizers and the kind of fertilizers to apply. Prerequisities: Chemistry IV and Soils I.

HOPKINS: Soil Fertility and Permanent Agriculture.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

BIOLOGY

PROFESSOR C. W. HOWARD; MR. K. P. BUSWELL.

THE BIOLOGICAL DEPARTMENT is well equipped with microscopes and other instruments necessary for work in all lines of botany and zoology. A good herbarium and working collections of the local fauna are also accessible to the students.

I. GENERAL BIOLOGY. The fundamental principles of biology. This course is intended for those who wish to have a general knowledge of the subject but will not pursue it further. Prescribed for all students in the General Arts, Chemistry, Social Science and Pre-theological groups.

CONN: Biology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

IIa. ZOOLOGY. Introductory study of the various forms of animal life. Prescribed for all students in the Natural Science, Agricultural and Pre-medical groups.

GALLOWAY: Zoology.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

IIb. BOTANY. Structure of plants and general function of plant organs. Prescribed for all students in the Natural Science, Agricultural and Pre-medical groups.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

IIIa and IIIb. ECONOMIC ZOOLOGY. A study of the forms of animal life harmful to or beneficial to man, his crops and domestic animals. Prerequisite: Biology IIa and IIb.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

IV. PHYSIOLOGY. Physiology of the human body. Prerequisite: Biology I, IIa and IIb.

STILES: Human Physiology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

V. HYGIENE. Personal, domestic and civic hygiene. Prerequisite: Biology IIa and IIb.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

VI. PLANT PHYSIOLOGY. Lectures and readings on the growth, nutrition, irritability, reproduction and variation of plants, combined with laboratory work. Prerequisite: Biology IIa.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

VII. SERICULTURE. The methods of producing silk in China and other countries. A study of the silk worm, its morphology, life history, diseases, and enemies. Prerequisite: Biology IIa and IIb.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

VIII. AGRICULTURAL BACTERIOLOGY. The nature of bacteria; fermentation; relation of bacteria to the origin of soil. The transformation of carbon and nitrogen; the manure heap and sewage; reclaiming lost nitrogen; relation of bacteria to the dairy and its products; relation of bacteria to miscellaneous farm products; parasitic bacteria.

CONN: Agricultural Bacteriology.

Lectures 1 hour, laboratory 4 hours, (3 credits); one semester.

IXa and IXb. COMPARATIVE MORPHOLOGY AND PHYSIOLOGY. A comparative study of the anatomy and physiology of the important groups of invertebrate and vertebrate animals. Designed especially for pre-medical students but open to others. Prerequisites: Biology IIa and IIb.

First semester, lectures 3 hours, laboratory 6 hours; (6 credits).
Second semester, lectures 2 hours, laboratory 4 hours; (4 credits).

X. HEREDITY AND EVOLUTION. The theories of evolution and the laws of heredity with their practical application. Prerequisite: Biology I or IIa and IIb.

3 credits; one semester.

XIa and XIb. PROBLEMS IN BIOLOGY. Individual research work for advanced students under the supervision of an instructor. Prerequisite: Biology IIa, IIb and III.

3 to 5 credits; two semesters.

XII. PLANT PATHOLOGY. A consideration of the bacteria and fungi which attack cultivated crops as well as other causes of plant diseases. Prerequisites: Biology IIa, IIb and VIII. (*Not offered in 1921-22*).

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

XIII. TAXONOMY AND HISTOLOGY OF PLANTS. The first part of the course is devoted to the classifying and naming of the plants of South China. The last part is devoted to methods of making preparations for microscopic work.

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

XIVa and XIVb. SCIENTIFIC LATIN AND GREEK. A course for those who intend to specialize in science, giving the principle roots used in scientific terms.

3 hours, two semesters.

BUSINESS ADMINISTRATION*

PROFESSOR———

Courses A and B are open to college students for three college credits each. The College courses are subject to revision by the professor in charge. The courses in Economics should be consulted by the student of Business.

A. ELEMENTARY BUSINESS. This course aims to give a general knowledge of the principal business and commercial practices. An introductory study of the money, weights and measures of China, instruments of commercial credit, general office forms and practice, shipping, banking, insurance, etc.

COMMERCIAL PRESS, LTD., Publishers: Commercial Knowledge.

4 hours; one semester.

B. ELEMENTARY BUSINESS continued. Simple book-keeping, business correspondence, elementary corporation finance.

KLEIN: Book-keeping and Accounting (An Introductory Course).

4 hours; one semester.

*Attention is called to the M. T. Tang Scholarship in Business Administration described on page 35.

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I. Business Organization and Operation. A study of modern enterprise as organized in the single proprietorship, the partnership, the joint stock, and the corporate forms. Economics I should precede or accompany this course.

Haney: Business Organization and Combination. 3 hours; one semester.

II. Industrial and Commercial Geography. A survey of the industries and products of the various countries of the world.

Smith: Industrial and Commercial Georgraphy. 3 hours; one semester.

III. History of Commerce. Growth of industry and commerce from ancient times to the present day. The industrial and economic life of the Greeks, Romans, and ancient Chinese; the feudal systems, the factory systems, and the industrial revolution; expansion of modern commerce; commercial transformation in the Far East.

Herrick: History of Commerce. 3 hours; one semester.

IV. International Trade and the Tariff. Principles of foreign exchange, with special attention to China. Recent tariff revision. Study of trade reports and statistics of China.

Bastable: The Theory of International Trade.

Chu: The Tariff Problem in China. 3 hours; one semester.

V. Advertising. Methods of effective advertising. Comparison of Chinese and foreign advertising methods.

Hess: Productive Advertising 3 hours; one semester.

VIa and VIb. Accountancy. Principles of debit and credit, the keeping of single and double entry books; preparation of balance sheets; loss and gain statements; closing of the ledger. The second semester is devoted to cost accounting. Open only to students of the rank of Juniors or above.

Ross: Bookeeping and Accounting. 4 hours; two semesters.

VIIa and VIIb. Business English and Correspondence. A consideration of the English of advertising; writing and editing copy; preparation of periodical advertisements, booklets and form letters; business correspondence and trade cultivation; filing and office systems.

Davis and Lingham: Business English and Correspondence. 3 hours; two semesters.

CHEMISTRY

Professor C. N. Laird; Mr. Chiu Yan Tsz; Mr. ———.

THREE ROOMS, approximately 1500 square feet in area, are occupied by the department of Chemistry. One room, seating sixty, equipped as a lecture room, is also used for recitations, another room accommodates fifty-six students in general chemistry, working in three sections, and the third has desks for twenty students in analytical and organic chemistry. Each desk is equipped with running water and (gasoline) gas. The equipment includes both apparatus for demonstration purposes and all the materials and supplies needed for each student to perform the experiments in the courses in general inorganic, analytical, organic and agricultural chemistry.

South China is rich in materials available for many chemical industries. Some of these are already being made use of, but processes are generally simple and often crude. A four-year course in chemistry is now offered, aiming to train men to be able to enlarge the development of these resources, especially those of a non-metallurgical character. A number of industrial processes will be put in operation on a small scale in connection with this course, and plans have been made to have at least one of these in actual use before the end of the academic year 1921-22.

In addition to several hundred well selected books, files and current numbers of the *American Chemical Journal*, *Journal of the American Chemical Society*, *Chemical Abstracts*, *Journal of Industrial and Engineering Chemistry*, *Chemical and Metallurgical Engineering*, *Journal of the Franklin Institute*, *Journal of the American Ceramic Society*, *Journal of Physical Chemistry*, *Journal of Biological Chemistry*, *Journal of the Chemical Society* (London), *Journal of the Society of Chemical Industry*, *Transactions of American Electro-chemical Society*, and *Science* (China) are available. In some cases the files are complete, in a few others complete since 1900.

Ia and Ib. GENERAL INORGANIC CHEMISTRY. The work covers only the ordinary non-metallic (first semester) and metallic (second semester) elements and their compounds, but a thorough knowledge of them is required. The quantitative laws of chemical combination and the principles of chemical equilibrum are mastered, and the habit formed of continually applying these principles to all chemical, including ionic, reactions. Prerequisite: Physics A and B. Laboratory fee: $20.00.

ALEX. SMITH: General Chemistry for Colleges.

ALEX. SMITH: A Laboratory Outline of College Chemistry.

Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

IIa and IIb. QUALITATIVE ANALYSIS. A course in the theory and practice of inorganic qualitative analysis to develop habits of chemical reasoning along modern theoretical lines and correct laboratory technique. Prerequisite: Chemistry I. Physics I should precede or accompany this course. Laboratory fee: $20.00.

STIEGLITZ: Qualitative Chemical Analysis, Vol. I.

A. A. Noyes: Qualitativ Chemical Analysis.

Class-room { 2 hours, first semester, / 1 hour, second semester, }, laboratory 6 hours, (9 credits for a year); two semesters.

IIIa and IIIb. QUANTITATIVE ANALYSIS. Theory of quantitative separations with discussion of laboratory methods and chemical calculations. Typical methods of gravimetric and volumetric analysis used. Prerequisite: Chemistry II and Physics I. Laboratory fee: $20.00.

BLASDALE: Principles of Quantitative Chemical Analysis.

Class-room 1 hour, laboratory 6 hours (4 credits); two semesters.

IV. ANALYTICAL CHEMISTRY. Short course for Agricultural and Pre-medical students. Lectures on theory of analytical chemistry and training in laboratory methods. Mostly qualitative analysis, but five weeks are spent on preparation and use of standard solutions and simple gravimetric determinations. Prerequisite: Chemistry I Laboratory fee: $15.00.

A. A. NOYES: Qualitativ Chemical Analysis.

Class-room 2 hours, laboratory 9 hours (6 credits); one semester.

Va and Vb. PHYSICAL CHEMISTRY. Discussion of equilibrium reactions in gases, thermodynamics, Phase Rule, theories of solutions, and colloid chemistry. Prerequisite: Chemistry III, Mathematics V. Laboratory fee. $10.00. *Not offered in 1921-22.*

Class-room 2 hours, laboratory 3 hours (7 credits for the year); two semesters

VI. ELEMENTARY ORGANIC CHEMISTRY. Short course for Agricultural and Pre-medical students. Survey of the characteristics and relationships of the more important members of the alipathic series followed by a briefer treatment of the aromatic series. Relation of organic chemistry to medicine, pharmacy and agriculture is emphasized. Prerequisite: Chemistry IV. Laboratory fee: $15.00.

MOORE: Outlines of Organic Chemistry.

FISHER: Laboratory Manual of Organic Chemistry.

Class-room 3 hours, laboratory 9 hours, (7 credits); one semester.

VIIa and VIIb. ORGANIC CHEMISTRY. Broad survey of most important compounds of both the alipathic and aromatic series. Reference made to local materials and industrial applications whenever possible. Preparation of typical organic compounds and recognition of important radicals in the laboratory. Prerequisites: Chemistry II and Physics I. Laboratory fee: $30.00. *Not offered in 1921-22.*

H. T. CLARKE: Introduction to the Study of Organic Chemistry.

W. A. NOYES: Organic Chemistry for the Laboratory.

Class-room 3 hours, laboratory 9 hours; (15 credits for the years); two semesters.

VIII. ADVANCED ORGANIC SYNTHESIS. Prerequisite: Chemistry VII. Laboratory fee: $10.00. *Not offered in 1921-22.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

IX. ANALYTICAL ORGANIC CHEMISTRY. Technical methods of analysis, with special reference to soap, oils, and other local products. Prerequisite: Chemistry VII. Laboratory fee: $10.00. *Not offered in 1921-22.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

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X. Food Analysis. Analysis of typical Chinese food-stuffs. Prerequisite: Chemistry VII. Open to agricultural students who have had Chemistry VI. Laboratory fee: $10.00.

Woodman: Food Analysis.

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

XIa and XIb. Industrial Chemistry. Lectures on general methods of applied chemistry, with special reference to local conditions and the development of Chinese industries. Laboratory work includes use of typical industrial processes on a small scale, and inspection of plants in South China. Prerequisite: Chemistry VII. Laboratory fee: $25.00.

Thorp: Outlines of Industrial Chemistry.

Class-room 3 hours, laboratory { 9 hours first semester, / 6 hours second semester }, (13 credits for the year); two semesters.

XII. Special Problems in Industrial Chemistry. Each Senior in industrial chemistry will be assigned a problem, such as the analysis and study of an important local raw material or the design of a small vegetable oil plant, on which a report will be made. Library work, conferences, etc. Prerequisite: Chemistry XI. Laboratory fee: $10.00. *Not offered in 1921-22.*

Laboratory 6 hours, (3 credits); one semester.

XIIIa and XIIIb. Elementary Chemistry. An introductory course in general chemistry, elective for sophomores in the General Arts and Social Science Groups, required of Freshmen in the two-year agricultural course. The latter will use as far as possible in the laboratory substances important in agriculture as illustrations of the fundamental principles. Laboratory fee: $10.00.

McPherson and Henderson: Elementary Study of Chemistry.

McPherson and Henderson: Exercises in Chemistry.

Peters: Preparation of Substances Important in Agriculture.

Class-room 2 hours, laboratory 2 hours, (3 credits); two semesters.

XIV. Agricultural Chemistry. Treated chiefly from the organic and bio-chemical side. Factors which influence the composition and feeding value of crops; crop rotation; chemistry of plants and animals; chemical analysis of soils, fertilizers and farm products. Prerequisite: Chemistry IV and VI. Laboratory fee: $10.00.

Stoddart: Chemistry of Agriculture.

Class-room 2 hours, laboratory 4 hours (4 credits); one semester.

CHINESE

Professor Chan Tsap Ng; Associate Professor Chan Chung Wai; Mr. Chan Tak Wan; Mr. Au Lai Chau; Mr. Chan Shau Yi.

Sub-Freshman Chinese

A and B. Chinese Composition (國文). Required of all Sub-freshmen.

Commercial Press, Ltd.: Middle School Kwok Man (國文). Book 4.

3 hours; two semesters

C. Chinese Classics (論孟).

2 hourss; two semesters.

D. Modern Ethical Literature (先儒語錄).

2 hours; one semester.

College Courses

Three groups of college courses are offered: Chinese Philosophy, Chinese Literature, and Chinese Historical Research, as well as courses in Composition in Chinese. Students may elect the course they desire to pursue, but in general will follow one group through. No course will be opened unless the number electing in the group is enough to warrant it. The order in which the semester courses are given may be modified to meet the requirements of the students.

Chinese Historical Research (中國歷史)

Ia and Ib. Archæology (古物學). The purpose of this course is the study and the preservation of the historical objects, places and monuments of China, including ancient ceramics, paintings, bronzes, coins, gems and all branches of paleography and antiquity. This course, it is hoped, will serve as a step toward the formation of archæological museums and societies. Lectures, discussions, reports, travelling, and making of collections.

2 hours; one year course.

IIa and IIb. HISTORY OF CHINESE RITES, CUSTOMS CEREMONIES AND ETIQUETTE (禮俗史). This is an historical and critical study of the Chinese principles and rules of propriety and social order. Lectures, discussions and reports.

2 hours; two semesters.

III. LEGAL AND POLITICAL HISTORY OF CHINA (法制史). A general survey of the legal and political aspects of China's history and development.

2 hours; one semester.

IV. HISTORY OF CHINESE IMMIGRATION INTO FOREIGN COUNTRIES (華僑史). This is an historical and statistical study of the conditions of Chinese abroad. Reports will be gathered for the guidance of Chinese going to and returning from foreign lands. This course prepares the way for the establishment of an information bureau for Chinese emigrants. Lectures and reports.

2 hours; one semester.

V. RELIGIOUS HISTORY OF CHINA (宗教史). A study of the religious life and thought in the history of China.

3 hours; one semester.

Chinese Literature (中國文學)

Ia and Ib. CHINESE CHARACTERS (文字學). A study of the philology and linguistics of the Chinese characters, both ancient and modern. This course will prepare students to do research work in the field of Chinese antiquity and also will prove valuable to the student who intends to study the new types of Chinese literature for the layman. Lectures, discussions, practical work.

2 hours; one year course.

IIa and IIb. CHINESE PROSE WRITINGS (文詞學). Lectures, discussions and reports.

2 hours; one year course.

IIIa and IIIb. VERSIFICATION (詩詞學). The different types and forms of Chinese poetry, drama, etc., both ancient and modern, are critically studied. In this course the student will endeavor to make improvements on the current forms of hymns, songs,

and histrionic productions for the sake of popular education. Lectures, discussions and practical work. Permission of the teacher in charge, based upon sufficient preparation in Chinese Composition (courses A and B) is necessary for a student electing this course.

4 hours; one year course.

IV. HISTORY OF LITERATURE (文學史). Lectures, discussions, and reports.

2 hours; one semester.

V. CHINESE PUBLIC DOCUMENTS (公牘). A study of the various forms of public documents, and practice in preparing material in the most approved business and documentary styles.

2 hours; one semeste,.

VI. THE SHORT STORY (短篇小說). This course discusses some of the problems of material and method in the short story, drawing freely from western authors for illustrations and applying their theories and methods to Chinese material. Lectures, discussions, assigned readying and bi-weekly themes.

2 hours; one semester.

Chinese Philosophy (中國哲學)

The aim of these courses is to familiarize the student with the different types of ancient and recent philosophical and ethical concepts with a view to aiding him to a better knowledge of the rules of conduct and ideals of life.

Ia and Ib. ANCIENT PHILOSOPHY (古代哲學). Lectures, discussions and reports.

2 hours; two semester course.

IIa and IIb. MODERN PHILOSOPHY (近代哲學). Lectures, discussions and reports. Open, by permission of the teacher in charge, only to those whose preparation in Chinese Composition (courses A and B) is considered adequate.

2 hours; two semester course.

Composition in Chinese

I and II. This is not a course in Chinese classics and literature. The aim of the course is to guide and encourage the student to make use of the knowledge which he has acquired through the medium of the English language by expressing it in Chinese. This is so essential in the preparation of the increasing number of men who are looking forward to teaching in grammar and middle schools, that its importance must be emphasized. Students taking this course are required to translate English works into modern and idiomatic Chinese. Opportunity is afforded for collateral reading of books already translated by acknowledged authorities and for informal class discussions. In addition to the regular class-room work, students are encouraged to collect material in English and prepare in Chinese talks and addresses on topics of general interest to be delivered in the class-room and elsewhere, as occasions offer in connection with the extension work of the College. Students find expression for their best translated and original productions through the *Ling Naam Magazine*.

2 hours; one or more semesters.

ECONOMICS

PROFESSOR K. DUNCAN; MR. F. A. MCCLURE; MR.————.

THE COURSES in Economics are in close correlation with those in Business Administration and Agriculture, and attention is called to courses of economic interest under those headings. The college and private libraries on the campus furnish a large amount of well-selected material for economic study. Files and current numbers of *American Economic Review, Economic Journal, Annals of the American Academy, Journal of Political Economy, Chinese Social and Political Science Review, Trans-Pacific, Quarterly Publications of the American Statistical Association* and other economic and financial periodicals are available. In the case of the publications of the AMERICAN ECONOMIC ASSOCIATION the files are complete. The near-by cities of Canton and Hongkong afford unusual opportunities for studies of modern economic problems.

Ia and Ib. GENERAL ECONOMICS. Prerequisite for other more advanced courses in Economics. Economic theory and a general survey of the economic world. During the second semester, as time permits, there is a brief study of the single tax, socialism in its economic aspects, money and currency, large scale production, and public finance. The class meets for one lecture a week and in small sections for quiz work three times a week. Students are expected to do much collateral reading in standard reference works and collections of readings in economics.

CARVER: Principles of Political Economy.
DUNCAN: Exercises in Elementary Economics.

4 hours; two semesters.

II. AGRICULTURAL ECONOMICS. A brief introduction to elementary economic theory, followed by a study of some problems of agriculture in their economic aspects, emphasizing conditions in China. Some topics considered are: the statistics of the world's agricultural geography, resources, products and trade; crop yields and prices; agricultural enterprise and farm organization; standardization of agricultural products; co-operative associations; markets and marketing methods; farm incomes and farm cost accounting; land tenure; rural credit; colonization projects; agricultural legislation and agrarian policies. Agricultural students enroll in this course instead of Ia and Ib.

TAYLOR: Agricultural Economics, and syllabi.
Readings in NOURSE: Agricultural Economics, and other source materials.

3 hours; one semester.

III. CONSERVATION OF ECONOMIC RESOURCES. A survey of the natural resources and products of China of economic significance and an examination of the policies of conservation and control. General principles of conservation; economic aspects of scientific agriculture, food supply, scientific forestry, flood control, use of mineral wealth, and conservation of human resources. Syllabi, with assigned readings and reports. Open to Sophomores and above, Economics Ia and Ib not prerequisite.

ELY, HESS, LEITH AND CARVER: Foundations of National Prosperity.

3 hours; one semester.

IV. HISTORY OF ECONOMIC THOUGHT. History of economic ideas and philosophy from ancient times to the present. The effect of changing social and industrial systems on economic ideas;

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the economic interpretation of history; the present economic order and programs of socio-economic reform. Influence of the European War on economic thought.

HANEY: History of Economic Thought.

3 hours; one semester.

V. PUBLIC FINANCE AND TAXATION. Study of the theory and history of governmental revenues and expenditures; taxation with special reference to the general property, inheritance, and income taxes; customs and transit duties; local and general taxation in China; financial administration; war finance and other problems of extraordinary finance.

PLEHN: Introduction to Public Finance.

SELIGMAN: Essays in Taxation, 8th ed. 3 hours; one semester.

VI. MONEY AND BANKING. Principles of money and currency; functions and operation of a modern bank. Monetary reform in China. Students have an opportunity for practical study and experience in banking in the College Bank. Outlines, with assigned readings. The class will visit the mint in Canton.

HOLDSWORTH: Money and Banking. 3 hours; one semester.

VII. INSURANCE. Principles and methods of insurance, its history, problems and law. Special attention to life insurance, with an elementary consideration of the fundamental mathematics of actuarial science, and to fire insurance as an example of property insurance. Brief survey of the scope and development of social insurance. Insurance carriers; state insurance; insurance statistics; insurance in China.

GEPHART: Principles of Insurance, vol. I (Life) and vol. II (Fire).

3 hours; one semester.

VIII. SOCIALISM. The development of socialistic thought and a critique of the chief contemporary systems of socialism. Special attention given to Marxian philosophy, to modern evolutionary socialism, and to present-day radical movements. Socialism in China.

KIRKUP: History of Socialism.

SKELTON: Socialism.

SPARGO: Applied Socialism. 3 hours; one semester.

IX. STATISTICS. Elementary principles of the statistical method; the collection, presentation and interpretation of statistical data. Special attention to the various types of indices, averages and coefficients and their proper uses, and to graphic and diagrammatic

methods of presenting economic and social statistics. Primarily for advanced students expecting to do research work in economics, business administration, educational measurements, and genetics. Open only to Junior and Senior students, and others by special permission of the instructor.

KING: The Elements of Statistical Method.

KING: Exercises in Statistical Method.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

EDUCATION

PROFESSOR H. B. GRAYBILL; MR. J. N. KEYS

THE SUBJECTS offered in Education are designed to meet three needs: the training of teachers and school officers, the provision of instruction in education for those who may not themselves be expecting to engage in teaching, and the solution of some of the many problems incident to the development of a new system and type of education in China.

The list of subjects is on the one hand more extensive than the work actually being done, and on the other hand is less extensive than that contemplated for future offerings. Although the work of this department has grown rapidly during the past ten years, the subjects offered are kept ahead of actual development.

The College stands ready to recommend approved students for educational positions, and to this end has arranged its subjects so as best to assist students to prepare for definite places in educational service. The following are the minimum requirements, as far as studies in education are concerned, for recommendation to the positions listed:

POSITIONS	REQUIREMENTS
Higher Primary Teacher	Education I, IV (or V or both), and XII (4 credits).
Higher Primary Principal	Education I, III, IV, V, VI (or XI), and XII (8 credits).
Higher Primary Superintendent or Supervisor	Education I, II, III, IV, V, VI, XI, and XII (8 credits).
Middle School Teacher	Education I, VII, VIII (or IX), XII (4 credits), and a Junior College Certificate with major in the content subject to be taught.
Middle School Principal	Education I, II, III, VII, VIII (or IX), X (or XI), XII (8 credits, or a year's experience as a regular teacher under supervision), and the Bachelor's degree.
Normal School Teacher, or Specialist in Teacher Training.	(Requirements and courses to be developed later).

I. THE LEARNING PROCESS. A course in how to study and how to teach, suited to the needs of a college student as well as to those of a prospective teacher, a fuudamental course in education from the individual and psychological point of view. Lectures, readings, experiments, and study of

STRAYER AND NORSWORTHY: How to Teach.

3 hours; first semester.

II. (1921-22) THE SCHOOL. A course in school management and the development of schools in China, especially of Higher Primary Schools, a fundamental course in higher primary educational problems. The majority of the students electing this course will probably have had Education A and B given in 1920-21. Lectures, observations, and study of

COLGROVE: The Teacher and the School, or

JUDD: An Introduction to the Scientific Study of Education.

3 hours; second semester.

II. (1922-23) THE DEVELOPMENT OF SCHOOLS IN CHINA. A brief survey of China's educational needs, presenting the larger typical problems with emphasis upon popular education both rural and city, and especially upon the higher primary and middle schools. Lectures, readings, investigations, and study of

FOGHT: The Rural Teacher and his Work, etc.

3 hours; second semester.

III. (1923-24) AN INTRODUCTION TO THE SCIENTIFIC STUDY OF EDUCATION. It is desirable but not required that students shall have had Education I and II (1922-23). This course is not for students who have had II (1921-22). A fundamental course in the study of the school, its origin, it nature, its immediate and ultimate control, its cost, its management, its sanitation, its curriculum, its organization, its activities, its life and spirit, its supervision. Lectures, observations, demonstrations, readings, and study of

JUDD: An Introduction to the Scientific Study of Education.

3 hours; one or two semesters.

IV. HIGHER PRIMARY SCHOOL SUBJECTS. The place, content, and teaching technique of subjects in the higher primary school curriculum, including tests and measurements, and a mastery of the subject matter itself. Subjects: English, Arithmetic, Nature Study, Art and Handwork. Prerequisite: Education I. It is highly desirable that students taking this course shall have had Education II and III as well as I.

3 hours; one semester.

V. HIGHER PRIMARY SCHOOL SUBJECTS. A course corresponding to IV above but covering the chief subjects not dealt with in that course; viz., Chinese, History, Geography, Ethics, and Religion. Prerequisite: Education I. It is highly desirable that students taking this course shall have had Education II and III as well as I.

3 hours; one semester.

VI. ELEMENTARY SCHOOL SUPERVISION. Child psychology, school hygiene, mental and physical defects, tests and measurements and scientific classification of students, standards for judging schools and their work, and methods of supervision and improvement of teaching and school management. Prerequisite, Education I, II, III, and IV (or V).

3 hours; one or two semesters.

VII. FUNDAMENTAL COURSE IN MIDDLE SCHOOL EDUCATION The history and place of the secondary school, the psychology of adolescence, vocational guidance and training, middle school management, and the general principles of secondary school teaching in brief. It is desirable that students shall have had Education I, II, and III if not more, but only Education I is prerequisite.

3 hours; two semesters.

VIII. MIDDLE SCHOOL SUBJECTS. The place, content, principles and technique of teaching, and measurements of results in some or all of the following middle school subjects: Geography, General Science, Physiology and Hygiene, Agriculture, Physics, and Chemistry. Prerequisite, Education I and VII and the content subject matter involved.

3 hours; one semester.

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IX. Middle School Subjects. Corresponding to VIII above but dealing with the following subjects: English, Mathematics, Religion, Art, Music, Public Speaking, and Chinese.

3 hours; one semester.

X. Middle School Administration. An advanced treatment of the more important and difficult problems of middle school administration and supervision including the curriculum, standards, organization, development, and financing of both private and government middle schools. Prerequisite, Education I, VII, and VIII (or IX).

3 hours; one or two semesters.

XI. School Administration. A very practical study of office management, record-keeping reports, school equipment and school supplies, school buildings and decoration, sanitary arrangements, grounds, programs, schedules, assignments, student organizations, boarding departments, library, athletics, inter-school matters, relations to parents, employment of teachers, etc. The time is arranged so as best to suit those who may come from a distance, probably Saturdays at eleven o'clock. Open to teachers and students who have had a year's experience in school management, to those who hold at the time a position as school principal or assistant principal in a school of recognized standing, and to those who have had not less than two courses in Education and in addition state their expectation of entering soon upon school administration work.

2 hours; one or two semesters.

XII. Practice Teaching. Students in Education may gain one credit for two hours or two credits for four hours a week during each semester of practice teaching, provided this is done under the supervision of the instructor and is of a grade which meets his approval. A certain amount of collateral reading is expected, and there is required a report upon the actual conduct of the course taught or a carefully kept daily lesson plan book.

ENGLISH

Professor L. D. Loshe; Associate Professor J. C. Griggs; Mr. A. H. Holt; Mr. P. N. Youtz; Mr. Chan Shau Yi.

A and B. Sub-freshman English. Prescribed for all Sub-freshmen. The aim of this course is clear, simple and logical expression, Preparing the student to use English more freely in his other courses as well as to continue the study of the language itself. Composition with emphasis on the principles of structure in the sentence and paragraph, and reading of texts sufficiently varied to develop the student's vocabulary.

Lomer and Ashmun: The Study and Practice of Writing English
Smith: Short Stories, Old and New (Ginn).
Lowell: Vision of Sir Launfal, edited by Davidson (Houghton Mifflin).
George Eliot: Silas Marner (Ginn).
Scott: Ivanhoe, Abridged (Longmans Class-Books of English Literature), or
Shakespeare: Julius Cæsar, Hudson Edition (Ginn).
Burroughs: Afoot and Afloat (Houghton Mifflin).

5 nours; two semesters.

C and D. Supplementary English for Sub-freshmen. A course designed to supplement courses A and B, and prescribed for certain students on recommendation of the instructor of English A or B. No credit.

Tseu Yih-zan: Hints on English Composition.

2 hours; two semesters.

Ia and Ib. English Composition. Prescribed for all Freshmen, except those in the Agricultural Group. Study of composition and style with emphasis on the relation between clear thinking and clear writing. While the work of the course is chiefly in composition, there are regular assignments of reading intending to illustrate the principles studied as well as to give practice in reading. Rhetoric, reading themes, and conferences. Supplementary English may be required for those whose English is deemed inadequate.

Genung and Hanson: Outlines of Composition and Rhetoric (Ginn).
Burke: Speecch on Conciliation with America, edited by Lamount (Standard English Classics; Ginn).
Tennyson: Idylls of the King, edited by Boughton (Ginn), or
Arnold: Sohrab and Rustum, edited by Trent and Brewster (Ginn).
Webster: First Bunker Hill Oration, edited by Gaston (Ginn).
Campbell and Rice: A Book of Narratives (Heath).

4 hourss; two semesters.

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IIa and IIb. ENGLISH COMPOSITION FOR AGRICULTURAL STUDENTS. Prescribed for Freshmen in the Agricultural Group. A simple course in composition with themes on subjects taken from the practical work and the texts of the courses in agriculture.

1 hour; two semesters.

IIIa and IIIb. READING COURSE IN MODERN ENGLISH. The aim of this course is to familiarize the student with the idiom and vocabulary of modern periodicals and to give him some idea of the scope and content of the leading weekly and monthly magazines.

2 hours; two semesters.

IVa and IVb. MATERIALS OF MODERN LITERATURE. In a very simple and elementary form this course makes an approach to the methods of comparative literature. It takes up the great common sources of material: the most important of the classical stories, the Norse stories, the Roland stories and the Arthurian stories. After studying the original outline and significance of the stories the students is shown some of the modern developments of the material. Lectures, assigned reading and papers.

3 hours; two semesters.

Va and Vb. INTRODUCTION TO ENGLISH LITERATURE. Open to students who have taken English III or English VII, or by permission of the instructor. This brief outline is intended to furnish a background for the study of special types of literature and a point of departure for the study of special periods. Lectures, assigned reading and the preparation of papers and reports.

3 hours; two semesters.

VIa and VIb. MODERN PLAYS AND PLAYWRITING. Reading and discussion of recent plays of importance, with study of the principles and methods of playwriting, and with practice in writing plays.

2 hours; two semesters.

VIIa and VIIb. ENGLISH PROSE FICTION. While giving the student practice in rapid reading this course discusses some of the problems of material and method in the short story and the novel. Reading of works of Dickens, Stevenson, and modern novelists, with lectures, discussions and papers based on the reading. Open to all students who have statisfied the requirements in English A and B.

3 hours; two semesters.

VIIIa and VIIIb. MODERN PROSE AND POETRY. Reading and discussion of some of the chief works of contemporary writers, especially in fiction and the drama. Open to students who have taken English III or VII, or to other students by permission of the instructor.

3 hours; two semesters.

IXa and IXb. RHETORIC. This course in the forms and methods of writing has a two-fold aim—to develop the student's powers of self-expression and to enable him to read with understanding of the author's methods and with enjoyment of literary art. Supplementary readings. Open to Sophomores and above who have received a grade of 85 or better in English I, or by permission of the instructor.

2 hours; two semesters.

Xa and Xb. ENGLISH LITERATURE FROM 1830 TO 1890. A study of the literature of this period with special attention to the great poets of the Victorian period.

3 hours; two semesters.

XIa and XIb. JOURNALISM. A brief study of the value, organization and operation of the daily, weekly and monthly press; study and practice in collecting, writing, editing, and publishing news, articles, and editorials. Prerequisite: 15 credits in English.

2 hours; two semesters.

XII. TEACHING OF ENGLISH. A study of the best methods of teaching English and of the best content for the English course in schools in China, with a review of phonetics, grammar, composition, reading, etc.

3 hours; one semester.

FRENCH

MR. S. L. GREEWOOD

Ia. ELEMENTARY FRENCH. Study of the essentials of grammar and composition, with the reading of simple texts.
THIEME AND EFFINGER: French Grammar.

5 hours; one semester.

Ib. INTERMEDIATE FRENCH. Study of more advanced grammar including all the irregular verbs. Much reading of prose of moderate difficulty.
FRASER AND SQUAIR: French Grammar.

5 hours; one semester.

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IIa. FRENCH PROSE. A rapid reading course in the best French novels and essays of the classical and modern authors.

4 hours; one semester.

IIb. FRENCH DRAMA. Rapid reading of selected plays of Corneille, Racine, Moliere, Hugo, and Rostand.

4 hours; one semester.

IIIa and IIIb. FRENCH COMPOSITION. A course in advanced French composition and grammar covering the finer and more technical points of the language. This course should accompany IIa and IIb.

LONGMAN: French Composition.

1 hour two semesters.

GEOLOGY

MR. D. L. COOK

I. COLLEGE GEOLOGY. An appreciation of the general principles underlying the structure and formation of the earth. Earth processes and earth history in relation to modern life and human activity; the formation of soil from different types of rock; elementary mineralogy.

CHAMBERLAIN AND SALISBURY: A College Text-Book of Geology.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

GERMAN

MR. S. L. GREENWOOD

Ia. ELEMENTARY GERMAN. Simple exercises and grammar. Reading of easy texts.

BACON: Elements of German.

5 hours; one semester.

Ib. INTERMEDIATE GERMAN. Study of grammar continued. Much reading of prose of moderate difficulty, with considerable attention given to the reading of scientific German.

HARRIS: German Grammar.

5 hours; one semester.

IIa. MODERN GERMAN. Rapid reading of some of the best German short stories and novels.

4 hours; one semester.

IIb. CLASSIC GERMAN. The reading of at least one work of importance of each of the three great classicists: Lessing, Goethe, and Schiller.

4 hours; one semester.

IIIa and IIIb. GERMAN COMPOSITION. Study of advanced German idiom and syntax. This course should accompany IIa and IIb.

BACON: German Composition.

1 hour; two semesters.

GOVERNMENT

DR. S. K. WEI; MR. H. C. BROWNELL

I. PRINCIPLES OF GOVERNMENT. The theory, origin and development of Government. Special attention paid to the political development and problems in China.

LEACOCK: Elements of Political Science.

3 hours; one semester.

II. INTERNATIONAL LAW. General survey of the field of international law. Particular attention paid to China's foreign relations and her treaties with the Powers and the problems of international readjustments, with readings in Tyau's Legal Obligations arising out of the Treaties between China and the other Powers, etc. Prerequisite, Government I.

3 hours; two semesters.

III. COMPARATIVE GOVERNMENT. The mechanism and problems of national, and state, governments. Comparative study of the government in Europe, America, Japan, and China with particular emphasis on the political conditions and problems in China. Lectures, discussions, and reports. Prerequisite, Government I.

3 hours; one semester.

IV. MUNICIPAL GOVERNMENT. The various forms and methods of municipal government, with particular attention to the development of municipal government in Canton and other Chinese cities.

MUNROE: Municipal Government.

GREEK

Mr. O. S. Johnson

Ia and Ib. Hellenistic Greek. Elementary course, primarily for pre-theological students. The grammar and simple exercises. Readings and translation from St. John's Gospel.
Moulton: Introduction to New Testament Greek.
Green: Vocabulary of the New Testment.
Nestle: Greek New Testament.

2 hours; two semesters.

IIa and IIb. Hellenistic Greek. Second year course. Readings and translation from the New Testament. Same texts continued.

3 hours; two semesters.

HISTORY

Professor H. C. Brownell

A and B. Ancient and Mediæval History to the Protestant Revolution. Assigned readings and essays.
Robinson and Breasted: History of Europe: Ancient and Mediæval.

Ia and Ib. Modern European History from the Protestant Revolution to the Present Day. Assigned readings and essays.
Robinson and Beard: Outlines of European History, Part II (Vol. II), Revised Edition.

3 hours; two semesters.

IIa and IIb. The Nineteenth Century. Presupposing both the preceding courses, this is a detailed study of particular phases of modern history—the Industrial Revolution, the American War of Independence, the Expansion of America, Franchise and Social Reform in England, the Slavery Struggle in the United States, the development of German unity, Italian unity, the Great War, etc. This course should enable the student to gain a correct idea of the present standing of the chief modern states and the reasons underlying it. Numerous assigned readings and reports.
Hayes: The Political and Social History of Modern Europe, Vol. II, and History of the Great War.
Hazen: Europe since 1815, and Fifty Years of Europe.

3 hours; two semesters.

IIIa and IIIb. The Far Eastern Countries in the Last Century. This is first a study of 19th century China's relations with the West, and second of modern developments in China's Far Eastern neighbors. The rise of Japan is traced to show the reaction upon China and explain the present conflict of interests. The progress made in Siam, India and the Philippine Islands is discussed to make plain the essential needs of China and to indicate safe policies of reform. Lectures, assigned readings and reports based on such books as Williams' History of China; Morse's International Relations of the Chinese Empire; Li Ung Bing's Outlines of Chinese History; McLaren's Political History of Japan in the Meiji Era; Porter's Japan, the New World Power; Worcester's Philippines, Past and Present; Gibbon's New Map of Asia; Hyndman's The Awakening of Asia. (*Offered in 1922-23*).

3 hours; two semesters.

IV. Industrial History of England. A study of the evolution of modern economic and social institutions as illustrated in the history of England. History IV may be elected instead of History Ib.
Cheyney: Industrial and Social History of England.

3 hours; one semester.

V. The History of the United States Since 1850. An outline of political events and a closer study of social and economic developments with an explanation of America's entry into world politics and her present position as a world power. Assigned readings and lectures. Open to Sophomores, Juniors and Seniors.
Muzzey: American History.

3 hours; one semester.

VI. Europe in Our Own Times. A study of the working of the European state system, 1870-1914, and its collapse in the Great War; European colonial expansion in that period and the redistribution of dependencies as the result of the defeat of Germany and Turkey; the Succession States of Central Europe; the new ideals of international relations and the League of Nations; lessons already obtainable from the Great War and the treaties which followed it.
Rose: The Development of the European Nations, 1870-1914.
Hayes: A Brief History of the Great War.

3 hours; one semester.

HOME ECONOMICS

MRS. M. C. RAND

Ia and Ib. COOKERY. Open to Sub-freshmen and to students who have not had a previous course in cookery. Supplementary work will be assigned to all students above the grade of Sub-freshmen. The course includes the study of the elements of food, the principles of cookery, classification of foods, and the preparation of simple dishes. The laboratory work is conducted by demonstration, in groups, and by individual methods. A carefully kept note-book is required.

Lecture 1 hour, laboratory 4 hours (3 credits); 2 semesters.

IIa and IIb. COOKERY. A continuation of Cookery I. Analysis of food, menu making, study of digestion, absorption, and metabolism, cookery of infants' food, invalids' food, estimation of calorie values. Prerequisites: Chemistry and Cookery I.

CONLEY: Nutrition and Diet.

Class-room, 2 hours, laboratory 4 hours (4 credits); 2 semesters.

IIIa and IIIb. SEWING. Needle work, machine work, drafting patterns, use of commercial patterns, garment making. A brief history of domestic art and textile industry.

Laboratory 6 hours (3 credits); two semesters.

Laboratory fee of $5.00 per year in each course. In addition to the laboratory fee, the students in the classes in cookery pay for food supply from month to month approximately $6.00 per semester to a business manager selected from the class.

MATHEMATICS

PROFESSOR W. E. MACDONALD

A. INTERMEDIATE ALGEBRA. Numerical and literal quadratic equations; irrational forms; theory of quadratic equations; surds; ratio; proportion; variation; logarithms; arithmetical, geometrical and harmonical progressions.

HAWKES-LUBY-TOUTON: Second Course in Algebra, Revised Edition.

4 hours one semester.

B. PLANE TRIGONOMETRY.

BAUER AND BROOKE: Plane and Spherical Trigonometry.

4 hours; one semester

I. SOLID GEOMETRY. Solid geometry, including spherical geometry. This course presupposes plane geometry and a working knowledge of algebra through quadratic equations.

BEMAN AND SMITH: Solid Geomtery.

4 hours; one semester.

II. COLLEGE ALGEBRA. Variables and functions, equations, theory of equations, series, undetermined coefficients, permutations and combinations, probability.

RIETZ AND CRATHORNE: College Algebra.

4 hours; one semester.

III and IV. ANALYTICAL GEOMETRY. This course aims to increase the student's appreciation of the processes of mathematical thought and the accuracy of expression afforded thereby; to train him in the application of fundamental principles of the analytic method both in the plane and in space; the straight line, conic sections, quadric surfaces, with special attention to locus problems. The idea of the derivative is introduced.

FINE AND THOMPSON: Coordinate Geomtery.

4 hours; two semesters.

V and VI. DIFFERENTIAL AND INTEGRAL CALCULUS. Drill on the methods of the Differential and Integral Calculus with numerous applications to geometry and physics, the theoretical development being as rigorous as the powers of each class will warrant. As a first course, however, its chief aim is to develop skill in the manipulation of formulas and in the statement and solution of problems. Indispensible for any advanced study of mathematics of physics and for intelligent engineering.

OSGOOD: Differential and Integral Calculus.

4 hours; two semesters.

VII. DIFFERENTIAL EQUATIONS. Prerequisite: Mathematics V and VI. This course is indispensible for students looking toward electrical engineering.

D. A. MURRAY: Differential Equations.

3 hours; one semester.

VIII. SOLID ANALYTICAL GEOMETRY. Prerequisite: Mathematics V and VI.

C. SMITH: An Elementary Treatise on Solid Geometry.

3 hours; one semester.

MUSIC

Credit to the extent of not more than 2 credits in one semester, nor more than 6 credits toward graduation, may be secured for music study, if under the supervision of the College and of approved grade. Ordinarily some special technical study of music will be expected of a student seeking credit in music.

PHILOSOPHY

DR. S. K. WEI

Ia and Ib. HISTORY OF WESTERN PHILOSOPHY. A general survey of the development of Western philosophy since the Greeks. Particular attention will be paid to the growth of philosophical problems out of social, political, geographical, and intellectual conditions and the attempts to solve them. Students are required to read the original sources as much as possible, using the histories of philosophy as guides. Collateral Reading in Windelband's History of Philosophy, and others.

ROGERS: Students' History of Philosophy.

3 hours; two semesters.

II. ETHICS. The scientific and historical method will be employed in the study of morality. The conditions and problems of morality in primitive society, village community, ancient state, medicval world, and modern time will be studied. Special attention will be given to the moral conditions and problems in China.

DEWEY AND TUFTS: Ethics, and collateral readings.

3 hours; one semester.

III. INTRODUCTION TO PHILOSOPHY. A brief sketch of the field of philosophy. The problems of metaphysics, knowledge, value, and religion will be considered. Students are required to participate in discussion and write papers on certain topics. Alternates with Philosophy V.

RUSSELL: Problems of Philosophy.

FULLERTON: Introduction to Philosophy, and collateral readings.

3 hours; one semester.

V. LOGIC. A study of syllogistic reasoning, deduction, and induction. The use of definition, proposition, inference, hypothesis, and proof will be carefully considered. Special attention is paid to the technique and method of investigation in the various natural and social sciences in order to familiarize the students with the scientific method and technique. Recent changes in logical theories will also be discussed. Alternates with Philosophy IV.

SELLARS: Essentials of Logic, and collateral readings.

3 hours; one semester

VIa and VIb. ETHICAL THEORIES. A critical examination of the various system's of ethical theories, both Chinese and Western. The ethics of Conficious and the other Chinese schools; intuitionism, utilitarianism, hedonism and the other Western schools will be carefully examined. Special attention will be given to the problems of moral reconstructions in China. Lectures, discussion, and reports. Prerequisite, Philosophy III.

2 hours; two semesters.

VII. MOVEMENTS OF CONTEMPORARY THOUGHT. A general survey of the development of contemporary thought since the 19th century. Naturalism, evolutionism, posivitism, idealism, pragmatism, and realism. Special emphasis will be laid on the social, political, ethical, and religious implications and significance of contemporary thoughts. Individualism, *laissez-faire,* socialism, democracy, materialism, agnosticism, anarchism, and bolshevism. The various phases of thought will be considered in the light of historical development and practical application. Lectures, discussion, and reports. Prerequisites, Philosophy I, II, III.

3 hours; two semesters.

PHYSICS

PROFESSOR C. K. EDMUNDS; ASSOCIATE PROFESSOR A. R. KNIPP; MR. D. L. COOK; MR. M. L. COTTA

THE PHYSICS DEPARTMENT occupies two large rooms and a shop on the second floor of Martin Hall. Its demonstration and laboratory apparatus, and the shop equipment with lathes and forge, afford ample opportunity for experimentation in both elementary and advanced courses. It has a well equipped Meteorological Station and makes daily observations of atmospheric temperature

and pressure, soil temperature, duration of sunshine, wind-velocity, river-level, rain-fall, evaporation and humidity. The Physics library comprises 600 volumes and includes files of the *Philosophical Magazine, Physical Review, Science Abstracts,* etc.

A and B. Project Physics. The chief object is to give the student an understanding of how physical principles underlie many experiences in every-day life and how some of the laws of physical science are applied in the home and the industries.

Millikan and Gale: A First Course in Physics.
Ahrens, Harley and Burns: Practical Physics Manual.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

Ia and Ib. General Physics. A fairly rigorous presentation of general physics. A working knowledge of algebra, geometry and trigonometry is required and preferably a previous study of the equivalent of Physics A and B. The laboratory work aims to train the student to make accurate physical measurements and to reason clearly from the results recorded. A brief study of the precision of measurements and training in practical photography are included.

Duff: A Text-Book of Physics.
Ames and Bliss: A Manual of Experiments in Physics.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

IIa and IIb. Mathematical Physics. Lectures on the mathematical basis of Mechanics, Heat, Light and Electricity. The laboratory course is made up of experiments requiring a considerable degree of precision.
Lectures 3 hours, laboratory 6 hours (6 credits); two semesters.

PSYCHOLOGY

Mr. J. N. Keys

I. General Psychology. This course aims to acquaint the student with the physiological basis of thought, and afford a general view of mental life, with particular attention to the learning process. It is intended to serve as a foundation for further work in philosophy, psychology or eduation. Experiments and assigned readings are included.

Thorndike: Elements of Psychology.
Colvin: The Learning Process.
3 hours; one semester.

RELIGION

Professor A. Baxter; Mr. J. V. Barrow

A and B. The Christian Church. Required of all Subfreshmen. The aim of this course is to give some idea of the nature, purpose and progress of the Christian Church in the world. Some account of the nature and origin of the Church in the New Testament and of its development in Apostolic Times, especially through the missionary labors of St. Paul. The Church in the Roman Empire and its great leaders. The great periods of Church History and their significance. The Church of to-day and its place in the world as an agent for the coming of the Kingdom of God.
1 hour; two semesters.

I. Christian Ethics. Primarily for Freshmen.

The aim is to outline the Ethics of Jesus, to compare them with other ethical systems, and to indicate their beauty, depth, and supremacy as an ideal of conduct which can be translated into practice by the help of the Spirit of God. Some account will be given of Non-Christian Ethical systems, especially as found in China, India, and Greece, and of the ethics of the Old Testament. The ethical ideas of Jesus will be indicated and discussed and the endeavor will be made to present them as an ideal of human conduct in individual, social, and international relationships.
2 hours; one semester.

II. Christian Apologetics. Open to Sophomores and above. The aim is to present Christianity so far as is possible as a reasonable faith, and to help the student towards the solution of problems that arise in the relation between Christion doctrine and practice and other branches of human knowledge. A statement and defence of the Christian doctrines of God, man and the world as against agnosticism, naturalism and the views of materialism and patheism. Problems connected with revelation and inspiration, miracles, prayer, forgiveness, the future life, and man's destiny.
Peake: Christianity, its Nature and Truth.
3 hours; one semester.

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IIIa and IIIb. COMPARATIVE RELIGION. Open to Freshmen and above. The aim of this course is to examine as far as possible the chief religions of ancient and modern times with a view to answering the question "is a world religion possible and if so, is that world religion Christianity?" IIIa includes some discussion of the nature, origin and validity of Religion. An examination of some of the lower forms of Religion. A study of the religions of Egypt, Assyria and Babylonia, Persia, Greece and Rome. IIIb ncludes some account of the chief religions systems surviving in the world to-day—especially the religions of India, China and Japan—with a view to showing how the best elements of these religions are conserved, ennobled, and transcended in Christianity.

MENZIES: History of Religion.

2 hours; two semesters.

IV. THE PERSON OF JESUS CHRIST. Prerequisite: Religion II. This final course aims at gathering together the conclusions reached in previous courses and at showing how their validity depends on our interpretation of the central fact—Jesus Christ. An endeavor will be made to reach an interpretation adequate to previous conclusions and which will justify Christ's claim to be for all time the "Light of the World."

Jesus Christ as interpreted by Himself in the gospels, especially St. John. The meaning of His incarnation and death. Jesus Christ as interpreted by the growing thought and experience of the church, and the influence He has exerted and still exerts on history.

2 hours; one semester.

Va and Vb. OLD TESTAMENT HISTORY. A detailed study of Old Testament times and especially of the Hebrew people, aiming to relate the personalities, institutions, and writings of the Old Testament to Israel's national life and to other nations which influenced its historical development.

2 hours; two semesters.

SOCIOLOGY

MR._____

A and B. CIVICS AND SOCIOLOGY. An introduction to China's problems in social science.

DOLE: The New American Citizen.
TOWNE: Social Problems.

3 hours; two semesters.

I. SOCIAL PROBLEMS. A general survey of a number of problems of the family, the race and the social order. Problems of the family; population; public welfare; women and children in industry; the status of women; social pathology; crime; famine; poverty; rural and urban life; industrial ethics; Chinese emigration; colonization; etc.

ELLWOOD: Sociology and Modern Social Problems.
LEONG AND TAO: Village and Town Life in China.

3 hours; one semester.

II. SOCIAL PSYCHOLOGY. Analytical study of the psychological aspects of social life and the principles of suggestion-imitation. The laws of mob-mind, fashion, custom, conventionality, conflict, public opinion, leadership and social control.

ROSS: Social Psychology. 3 hours; one semester.

III. GENERAL SOCIOLOGY. Prerequisite: Sociology I and II, if possible. General principles of the origin, development and organization of society up to its present stage. Systematic study of the social population, forces, processes, products and principles. Field of social service. Special attention to the social order and policies of the Orient. The class will undertake some simple field work. Besides the text, the student will become familiar, in the main, with the leading sociological systems and theories.

ROSS: Principles of Sociology. 3 hours; one semester

IV. PEACE AND WAR. War and militarism in their sociological aspects. Theories of war; national defense; maintenance of peace; theories of non-resistance; international peace. The course will be conducted as a round table discussion, and a systematic series of readings and reports required.

2 hours; one semester.

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Commencement Honors

June 25, 1920

Degrees Awarded

BACHELOR OF ARTS

陳受頤 Chan Shau Yi
何鴻平 Hoh Hung Ping
劉繼祖 Lau Kai Tso
楊國荃 Yeung Kwok Tsuen

Junior Certificates Awarded

TWO-YEAR PRE-MEDICAL

李廷安 Lei Ting On
禰恆有 Nye Yau Hang

ONE-YEAR

陳賀宗 Chan Hoh Chung
陳其芬 Chan Kei Fan
陳樹焜 Chan Shue Kwan
周大仁 Chau Taai Yan
朱有光 Chue Yau Kwong
何　亮 Hoh Leung
何蔭棠 Hoh Yam Tong
江耀彰 Kong Iu Cheung
古桂芬 Koo Kwai Fan
郭鎮坤 Kwok Chan Kwan
郭公田 Kwok Kung Tin
郭偉棠 Kwok Wai Tong
鄺明清 Kwong Ming Tsing
鄺挺生 Kwong Ting Shang
劉振雄 Lau Chan Hung
劉振英 Lau Chan Ying
劉汝穎 Lau Yue Pin
李耀燊 Lei Iu San
李國寧 Lei Kwok Ning
李錫超 Lei Sik Chiu
李廷華 Lei Ting Wa

梁民偉 Leung Man Wai
羅懷堅 Loh Waai Kin
吳鳳韻 Ng Fung Shiu
吳景祺 Ng King Kei
潘恩光 Poon Yan Kwong
司徒寬 Sz-to Foon
杜樹才 To Shue Tsoi
湯澤光 Tong Chank Kwong
湯澄波 Tong Ching Poh
曾昭森 Tsang Chiu Sham
謝昭杰 Tse Chiu Kit
徐澤林 Tsui Chaak Lam
黃澤普 Wong Chaak Po

Honor Certificates Awarded

Chan Shau Yi 陳受頤
Chan Yuen So, Miss 陳元素 (女士)
Chue Yau Kwong 朱有光
Hoh Hung Ping 何鴻平
Kwok Lam Shong 郭琳爽
Lei Ting On 李廷安
Suen Hing Tong 孫慶堂
Wong Shiu Hung 黃兆鴻

Prizes Awarded

HONOR PRIZE: 陳受頤 Chan Shau Yi
Honorable Mention: 朱有光 Chue Yau Kwong
COLES SCIENCE PRIZE: 古桂芬 Koo Kwai Fan
COLES MATHEMATICS PRIZE: 陳賀宗 Chan Hoh Chung
ATHLETICS PRIZE: 黃仁讓 Wong Yan Yeung
CHAMBERS' CHINESE COMPOSITION PRIZE: 陳榮捷 Chan Wing Tsit
ENGLISH PRIZE (Required Work): 朱有光 Chue Yau Kwong
ENGLISH PRIZE (Elective Work): 陳受頤 Chan Shau Yi

Graduates of Canton Christian College

Chan Shau Yi, B.A., 1920. Instructor in Chinese Literature, Canton Christian College, Canton.

Chan Ting Hoi, B.A., 1918. Social Secretary, City Y.M.C.A., Canton.

Hoh Hung Ping, B.A., 1920. Principal, Tung Chi School, Canton.

Lau Kai Tso, B.A., 1920. Teacher of Science, Union Middle School, Canton.

Lei Yue Kim, B.A., 1918. Student in America. Address: Room 305, 2 Rector St., New York City.

Lo Ka Ping, B.A., 1918. Teacher. Address:
廣州市十五甫蓮塘坊二巷十三號

Yeung Kwok Tsuen, B.A., 1920. Graduate Student in America. Address: Box 1257, Stanford University, California, U.S.A.

Register of Students

1920-21

In the following register, the names are spelled according to the standard Cantonese romanization. The rank is that attained by the student at the beginning of Semester I, or on entrance. Se = Senior (100 credits or more), Ju = Junior (65 to 99 credits), So = Sophomore (30 to 64 credits), Fr = Freshman (less than 30 credits), Su = Sub-Freshman (of sub-collegiate grade). Under "Sessions," "S" indicates the student was enrolled in the Summer Session, "1" in First Semester and "2" in Second Semester.

Name	*Original District*	*Rank*	*Sessions*	*Home Address*
歐陽濬 Au-yeung Chun	新會	Fr	S,1	Canton
歐陽濂 Au-yeung Lim	香山	Fr	1,2	Heung Shan
陳宗訓 Chan Chung Fan	福建	Fr	S,1,2	Medan, D.E.I.
陳賀宗 Chan Hoh Chung	新會	So	1,2	Canton
陳豔容 Chan Im Yung, Miss	新會	Fr	1,2	Fatshan
陳其芬 Chan Kei Fan	寶安	So	1,2	Po On
陳 憬 Chan King	新會	Su	1,2	Canton
陳立綱 Chan Laap Kong	潮洲	Su	1,2	Hongkong
陳禮康 Chan Lai Hong	順德	Su	S,1,2	Hongkong
陳文駐 Chan Man Chue	香山	Ju	S,1,2	Heung Shan
陳勉雲 Chan Min Wan	新會	Fr	1,2	Hongkong
陳受康 Chan Shau Hong	台山	Su	S,1,2	Canton
陳思壎 Chan Sz Huen	新會	Su	1,2	Fatshan
陳爵樑 Chan Tseuk Leung	南海	Su	S,1,2	Macao
陳榮捷 Chan Wing Tsit	開平	Fr	1,2	Hoi Ping
陳蔭鴻 Chan Yam Hung	新會	Su	1,2	Canton
陳元素 Chan Yuen So, Miss	新會	Fr	S,1,2	Canton
周學棠 Chau Hok Tong	茂名	Fr	1,2	Kochow
周秉均 Chau Ping Kwan	番禺	Su	S,1,2	Naam Kong
周士藹 Chau Sz Oi	新會	Sp	1	Canton
鄭瑗城 Cheng Leung Pan	寧波	Su	1,2	Shanghai
卓倩凌 Cheuk Sin Yuen, Miss	香山	Fr	1	Macao
張香生 Cheung Heung Shang	厦門	Su	1	Hongkong
章履剛 Cheung Lui Kong	番禺	Fr	1,2	Canton
張明珠 Cheung Ming Chue, Miss	厦門	Fr	S,1,2	Balei, D.E.I.

REGISTER, 1920-21

張德仁 Cheung Tak Yan	番禺	Su	S,1,2	Honam
朱　則 Chue Chaak	台山	Fr	1,2	San Wai
朱永基 Chue Wing Kei	九江	Fr	1	Honam
朱有光 Chue Yau Kwong	新會	So	S,1,2	Macao
鐘　肯 Chung Hang	番禺	Fr	S,1,2	Canton
鐘金陵 Chung Kam Ling	新會	Fr	1,2	San Wui
鍾光三 Chung Kwong Saam	新會	Su	1,2	Launceton, Tasmania
馮麗榮 Fung Lai Wing, Miss	新會	Ju	1,2	Honam
馮良玉 Fung Leung Yuk, Miss	南海	Fr	2	Hongkong
紀魯伯 Gilbert, Edmund A.		Sp	1,2	Canton
格禮羅 Griggs, Miss Eleanor		Su	1,2	Canton
何洪敢 Hoh Hung Kam	香山	Su	1,2	Siu Lam
何啓明 Hoh Kai Ming	番禺	Fr	S,1,2	Canton
何　亮 Hoh Leung	番禺	So	1,2	Honam
何連爵 Hoh Lin Tseuk	香山	Su	S,1,2	Hongkong
何世光 Hoh Shai Kwong	番禺	Su	1,2	Canton
何澍昌 Hoh Shue Cheung	南海	Fr	1,2	Naam Hoi
何藻富 Hoh Tso Foo	南海	Su	1,2	Canton
何蔭棠 Hoh Yam Tong	順德	So	1,2	Honam
何汝調 Hoh Yue Tung	南海	Fr	S,1,2	Canton
許德沛 Hui Tak Pui	台山	Su	1,2	San Wui
葉良才 Ip Leung Tsoi	梅縣	Su	S,1,2	Bangkok, Siam
葉大貞 Ip Taai Ching	南海	Fr	1,2	Hongkong
葉大星 Ip Taai Sing	香山	Su	1,2	Macao
葉贊堯 Ip Tsaan Iu	博羅	Su	1,2	Canton
甘乃光 Kam Naai Kwong	岑溪	Ju	S,1,2	Sam Kai, Sai.
高志銓 Ko Chi Tsuen, Miss	澄海	Su	S,1,2	Canton
高　喬 Ko Kiu	新會	Fr	S,1	San Wui
江貴蘭 Kong Kwai Laan, Miss	保安	Su	S	Hongkong
江沛然 Kong Pui In	寶安	Ju	S,1,2	Po On
江譽颐 Kong Yue Tai	南海	Fr	1,2	Honam
古桂芬 Koo Kwai Fan	香山	So	S,1,2	Macao
居愷行 Kui Shan Hang	番禺	Su	1	Honam
關文傑 Kwaan Man Kit	番禺	Fr	S,1,2	Canton
郭開基 Kwok Hoi Kei	瓊州	Su	S,1,2	Malacca, S.S.

REGISTER, 1920-21

郭琳爽 Kwok Lam Shong	香山	Se	S,1,2	Hongkong
郭文彬 Kwok Man Pan	揭揚	Ju	1,2	Pontianak, West Borneo
鄺連眞 Kwong Lin Chan	台山	Su	S,1,2	Canton
鄺藹文 Kwong Oi Man	台山	Fr	1,2	New York, U.S.A.
鄺森揚 Kwong Sham Yeung	台山	Su	S,1	Hongkong
黎本謙 Lai Poon Him	番禺	Su	S,1,2	Canton
黎成材 Lai Shing Tsoi	貴縣	Ju	1,2	Kwei Yuan, Sai.
黎天祐 Lai Tin Yau	番禺	Su	S,1,2	Canton
林柏生 Lam Paak Shang	信宜	Su	1,2	Sun I
林遂恩 Lam Sui Yan, Miss	新會	Su	S,1,2	Hongkong
林遂意 Lam Sui Yi, Miss	新會	Fr	S,1,2	Hongkong
劉振英 Lau Chan Ying	香山	So	1,2	Heung Shan
劉耀樞 Lau Iu Shue	香山	Fr	S,1,2	Hongkong
劉國璇 Lau Kwok Shuen	開平	Fr	1,2	Honam
劉樹柏 Lau Shue P'aak	台山	Su	S,1,2	Honam
劉體濂 Lau Tai Lim, Miss	番禺	Su	S,1,2	Canton
劉靜明 Lau Tsing Ming, Miss	香山	Fr	1,2	Siu Lam
李震川 Lei Chan Chuen	潮州	Su	1,2	Hongkong
李卓垣 Lei Cheuk Woon	香山	So	1,2	Heung Shan
李漢超 Lei Hon Chiu, Miss	南海	Su	S	Canton
李耀燊 Lei Iu San	東莞	So	S,1,2	Macao
李啓榮 Lei Kai Wing	新會	Fr	1,2	San Wui
李金銓 Lei Kam Tsuen	藤縣	So	1	Wuchow, Sai.
李文錫 Lei Man Sik	香山	Fr	1,2	Heung Shan
李文華 Lei Man Wa	新寧	Su	1,2	Hongkong
李秉鏗 Lei Ping Hang	番禺	Su	1,2	Macao
李寶同 Lei Po Tung	香山	Su	1,2	Siu Lam
李樹培 Lei Shue Pui	台山	Su	1	Canton
李錫超 Lei Sik Chiu	新寧	So	1,2	Hongkong
李雪鴻 Lei Suet Hung, Miss	番禺	Su	1,2	Canton
李德銓 Lei Tak Tsuen	台山	Su	1,2	Kong Moon
李惠馨 Lei Wai Hing	新會	Fr	1,2	Fatshan
李楊安 Lei Yeung On	新甯	Fr	1,2	Hongkong
李婉嫻 Lei Yuen Haan, Miss	新會	Su	S,1,2	Hongkong
李菀生 Lei Yuen Shang	香山	Su	S,1,2	Hongkong
李毓培 Lei Yuk Pui	台山	Su	1,2	Hongkong
梁仲英 Leung Chung Ying	番禺	Fr	1,2	Hongkong
梁孟齊 Leung Maang Tsai	新會	Su	1,2	Canton
梁道貞 Leung To Ching, Miss	番禺	Fr	S	Canton

REGISTER, 1920-21

梁就明 Leung Tsau Ming, Miss	番禺	Se	S,1,2	Honam	
廖奉景 Liu Fung King, Miss	番禺	Fr	1,2	Canton	
廖奉靈 Liu Fung Ling, Miss	番禺	Fr	1,2	Canton	
廖作燊 Liu Tsok San	新甯	So	1,2	Canton	
盧衡若 Lo Hang Yeuk	新會	Su	S,1,2	Macao	
盧德輿 Lo Tak Yue	新會	Su	1,2	San Wui	
盧子葵 Lo Tsz Kwai	南海	Su	S,1,2	Yokohama, Japan	
羅孝明 Loh Hau Ming	高明	Fr	1,2	Yokohama, Japan	
羅劍泉 Loh Kim Tsuen	南海	Fr	S,1,2	Hongkong	
羅時憲 Loh Shi Hin	順德	Sp	2	Tai Leung	
羅作祥 Loh Tsok Tseung	南海	Su	1,2	Honam	
羅懷堅 Loh Waai Kin	番禺	So	1,2	Canton	
羅和平 Loh Woh Ping, Miss	開平	Fr	S,1,2	Canton	
羅英豪 Loh Ying Ho	番禺	Su	S,1,2	Canton	
羅英燦 Loh Ying Tsaan	番禺	Su	1,2	Canton	
雷澤榴 Lui Chaak Lau	台山	Fr	S,1,2	Canton	
雷仲仁 Lui Chung Yan	台山	Su	S,1,2	Canton	
陸啓先 Luk Kai Sin	容縣	Su	1,2	Yung Yuen	
馬文興 Ma Man Hing	香山	Su	S,1,2	Hongkong	
馬文甲 Ma Man Kaap	香山	So	S,1,2	Hongkong	
麥應基 Maak Ying Kei	南海	So	1,2	Canton	
莫恩培 Mok Yan Pui	恩平	Su	1,2	Honam	
梅麗梨 Mui Lai Lei, Miss	台山	Su	S,1,2	Canton	
梅植生 Mui Chik Shang	台山	Fr	1,2	Canton	
梅榮輝 Mui Wing Fai	台山	Fr	1,2	Toi Shan	
梅紹強 Mui Yik Keung	台山	Fr	1,2	Toi Shan	
吳求哲 Ng Kau Tsit	開平	Fr	S,1,2	Honam	
吳景奇 Ng King Kei	南海	So	1,2	Fatshan	
吳兆鏗 Ng Shiu Hang	南海	Su	1,2	Honam	
伍瑞琴 Ng Sui Kam	新甯	Fr	S	Penang, S. S.	
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吳紉蘭 Ng Yan Laan, Miss	開平	Su	S,1,2	Honam	
禰有恆 Nye Yau Hang	番禺	Ju	1,2	Canton	
鮑金麒 Paau Kam Kei	香山	Fr	1,2	Hongkong	
潘啓芳 Poon Kai Fong	南海	Fr	1	Hongkong	
潘汝桐 Poon Yue Tung	南海	Fr	1,2	Naam Hoi	
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蕭耀東 Siu Iu Tung, Mrs.	合浦	Su	S,1,2	Hongkong	
孫　雄 Suen Hung	香山	So	S,1	C.C.C.	

REGISTER, 1920-21

孫少嫻 Suen Shiu Haan	香山	Su	1,2	Heung Shan	
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司徒寬 Sz-to Foon	開平	Su	1,2	Hoi Ping	
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唐逸馨 Tong Yat Hing, Miss	香山	Fr	S,1,2	Hongkong	
曾昭森 Tsang Chiu Sham	番禺	So	S,1,2	Canton	
曾恩濤 Tsang Yan To	香山	Fr	1,1,2	Canton	
謝昭杰 Tse Chiu Kit	南海	So	1,2	Canton	
謝樹邦 Tse Shue Pong	東莞	Su	1,2	Shek Lung	
謝天錫 Tse Tin Sik	開平	Fr	1,2	Hoi Ping	
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韋澤生 Wai Chaak Shang	香山	Su	S,1,2	Hongkong	
韋瑞生 Wai Sui Shang	香山	Su	S,1,2	Hongkong	
溫耀文 Wan Iu Man	肇慶	Su	1,2	Wuchow, Sai.	
溫耀斌 Wan Iu Pan	四會	Ju	1,2	Wuchow, Sai.	
溫婉恩 Wan Yuen Yan, Miss	台山	Fr	S,1,2	Honam	
黃澤普 Wong Chaak Po	番禺	So	1,2	Honam	
黃振權 Wong Chan Kuen	香山	Fr	S,1,2	Canton	
黃眞汝 Wong Chan Yue, Miss	南海	So	S,1	Canton	
黃洪就 Wong Hung Chau	台山	Su	1,2	Hongkong	
黃延凱 Wong In Hoi	梅縣	Fr	1,2	Macao	
黃延毓 Wong In Yuk	梅縣	Fr	1	Macao	
黃耀亙 Wong Iu Leung	東莞	Fr	1,2	Canton	
王觀慈 Wong Kan Tsz	東莞	Fr	S,1,2	Honam	
王吉兆 Wong Kat Chiu	香山	Se	S,1,2	Honolulu, Hawaii	
王安福 Wong On Fuk	香山	Fr	S,1,2	Hongkong	
黃保廉 Wong Po Lim	香山	Su	S,1	Hongkong	
黃葡生 Wong Po Shang	連州	Fr	1,2	Canton	
黃兆鴻 Wong Shiu Hung	番禺	Ju	S,1,2	Canton	

REGISTER, 1920-21.

黃錫齡 Wong Sik Ling	香山	Su	1,2	Macao
王愼謙 Wong Shan Him	番禺	So	S, 2	Honam
黃榮詔 Wong Wing Chiu	南海	Fr	S,1,2	Canton
黃仁讓 Wong Yan Yeung	南海	Fr	S,1,2	Canton
胡寶楷 Wu Po Kaai	鶴山	Su	1,2	Hongkong
胡 偉 Wu Wai	新甯	Su	1,2	Honam
胡裕鏗 Wu Yue Hang	鶴山	Su	1,2	Denver, Colo., U.S.A.
丘蘭秀 Yau Laan Shau	嘉應	Fr	1,2	Kaying
楊桂瓊 Yeung Kwai King, Miss	香山	Su	S,1,2	Macao
楊善美 Yeung Shin Mei	香山	Fr	1,2	Pak Shan
楊肇康 Yeung Shiu Hong	香山	Fr	1,2	Hongkong
楊錫章 Yeung Sik Cheung	香山	Su	S	Canton
楊煜樞 Yeung Yuk Shue	鶴山	Fr	S,1,2	Hongkong
余芹圃 Yue Kan Po	台山	Su	S,1,2	Toi Shan
余柏庸 Yue Paak Yung	台山	Su	1,2	Toi Shan
余東源 Yue Tung Yuen	開平	Su	S,1,2	Honam
阮康榜 Yuen Hong Pong	新會	Su	S	Hongkong
袁衍鈃 Yuen In Ling	東莞	Su	1,2	Honam
容顯宣 Yung Hin Suen	香山	Su	1,2	Hongkong
容啓業 Yung Kai Ip	香山	Fr	1,2	Hongkong
容秉衡 Yung Ping Hang	香山	Fr	S,1,2	Heung Shan

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Special Publications of the College

BULLETINS ISSUED BY THE COLLEGE*

Bulletin No. 5. GROFF, G. W., Agricultural Reciprocity between America and China. Illustrated. 40 pp. $0.20.

Bulletin No. 12. GROFF, G. W., The Papaya for South China. Illustrated. 7 pp. $0.10.

——— Chinese edition under title 木瓜. 8 pp. $0.10.

Bulletin No. 15. Some Educational Problems in China. 20 pp. $0.20.

Bulletin No. 18. LEVINE, C. O., and CADBURY, W. W., A Study of Milk Produced in Kwangtung. 9 pp. $0.10.

Bulletin No. 20. The 1917-18 Journal of the Lingnaam Agricultural Society (in Chinese). 150 pp. $0.20.

Bulletin No. 22 CADBURY, W. W., The 1918 Pandemic of Influenza in Canton, China. 20 pp. $0.10.

Bulletin No. 23. LEVINE C. O., Notes on Farm Animals and Animal Industries in China. Illustrated. $4 pp. $0.40.

Bulletin No. 25. GRAYBILL, H. B., Lawn Grasses for South China. 6 cuts, 6 pp. $0.20.

Bulletin No. 27. LEVINE, C. O., Butchering and Curing Meats in China. 9 cuts, 41 pages. $0.20.

Bulletin No. 28. WONG, H., KEYS, J. N., GRAYBILL, H. B., and MACDONALD, W. E., How to Study. $0.20. *Ready in Summer of 1921.*

* A list of the general publications, catalogues, etc., descriptive of the Canton Christian College is give elsewhere in this catalogue, on page 21.

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CANTON CHRISTIAN COLLEGE SERIES OF TEXTS

IN ENGLISH

BERGSTRESSER, C. A., Essentials of Arithmetic, Book I. Canton, 1909, College Bookstore. *Out of Print.*

GRAYBILL, H. B., Every-Day English. Book I and Book II. Shanghai, 1910, Commercial Press, Ltd. Book, I, $0.40; Book II, $0.30.

GRAYBILL, H. B., Teacher's Manual for Every-Day English Books I & II. Canton, 1912, Commercial Press. Ltd. $0.30.

BERGSTRESSER, C. A., and WICKS, C. H., Essentials of Arithmetic, Book II. Canton, 1912, College Bookstore. *Out of Print.*

DUNCAN, K., Essentials of Economics. Shanghai, 1914, Commercial Press, Ltd. $0.80.

BERGSTRESSER, C. A., Essentials of Arithmetic, revised by Y. T. Chiu and W. E. MacDonald. Canton, 1917, College Bookstore. $2.50.

DUNCAN, K., Exercises in Elementary Economics Canton, 1918, College Bookstore. $1.50.

GRAYBILL, H. B., Mastery of English Books I, II & III. Shanghai, 1919, Edward Evans & Sons, Ltd. Book I, $0.50; Book II, $1.00; Book III, $1.25.

GROFF, G. W., The Lychee and Lungnan. Canton, 1920, Canton Christian College. 60 Illustrations. $2.20.

IN CHINESE

FUSON, C. G., Primary Geography. 2 vol. Shanghai, 1913, Commercial Press, Ltd. $0.25 each.

WONG, H. M., Arithmetic for Higher Elementary Schools. 4 vol. Shanghai, 1913, Commercial Press. $0.25 each.

FUSON, C. G., Geography of Kwangtung. Canton, 1918, College Bookstore. $0.25.

Any of the publications listed above can be secured, unless out of print, by ordering from the College Bookstore, Honglok, Canton, China.

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COLLEGIATE MISSIONS

in the

CANTON CHRISTIAN COLLEGE

The Pennsylvania State College Mission to China 1907
GEORGE WEIDMAN GROFF, M.S. (Pennsylvania State)
WALTER L. FUNKHOUSER, B.S. (Pennsylvania State)

The Foreign Work of the Christian Association of the University of Pennsylvania 1909
WILLIAM W. CADBURY, M.A. (Haverford), M.D. (Pennsylvania)
Internal Medicine

The Teachers College of Columbia University Foundation for a Professorship of Education in China. 1914
H. B. GRAYBILL, B. A. (Washington and Lee), M.A. and Diploma (Teachers College, Columbia)
Education

The Foreign Work of the Christian Association of Vassar College
MISS NETTIE SZ-TO, M.A. (California) 1915
Dean of Women

The Foreign Work of the Christian Association of the University of Pittsburgh 1915

The Foreign Work of the Williams College Christian Association
W. RUSSELL AUGUR, B.A. (Williams) 1916
ALFRED H. HOLT, B.A. (Williams)

The Kansas State Agricultural College Mission to China
CARL OSCAR LEVINE, B.S. (Kansas State) 1916
Animal Husbandry

The Washington and Lee University Mission to China 1919

CO-OPERATING

with the

CANTON CHRISTIAN COLLEGE

The London Missionary Society
Supporting Rev. ALEXANDER BAXTER 1915

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ACADEMIC CALENDAR

1921-22

SUMMER SESSION

	1921	
Summer Session opens, 7:00 p.m.	Mon.	June 27
Summer Session closes	Wed.	July 27

FIRST SEMESTER

Registration and Entrance Examinations, 8:00 a.m.	Tues.	Sept. 13
Re-examinations, 8:00 a.m.	Wed.	Sept. 14
Fees paid at the Bank	Thurs.	Sept. 15
Semester opens 7:00 p.m.	Thurs.	Sept. 15
Holiday: Independence Day	Mon.	Oct. 10
Holiday: Christmas Day*	Sat.	Dec. 24
1922		
Holiday: New Year's Day*	Mon.	Jan. 2
Semester closes	Fri.	Feb. 3

SECOND SEMESTER

Registration and Entrance Examinations, 9:00 a.m.	Tues.	Feb. 14
Re-examinations, 9:00 a.m.	Wed.	Feb. 15
Fees paid at Bank	Thurs.	Feb. 16
Semester opens 6:00 p.m.	Thurs.	Feb. 16
Holiday: Class and Founders' Day	Mon.	May 22
Alumni Day	Thurs.	June 22
Commencement Exercises, 11:00 a.m.	Fri.	June 23

* Dec. 25, 1921 and Jan. 1, 1922 fall on Sunday.

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Canton Christian College

College of Arts and Sciences

College of Agriculture

BULLETIN 32

CATALOGUE

1922-23

CANTON, CHINA

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of the
CANTON CHRISTIAN COLLEGE

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Board of Management of the College of Agriculture

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MA YING PIU

DR. TSIN SHUE FAN

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American Office

CHARLES K. EDMUNDS, President of the College
W. HENRY GRANT, Secretary
MISS KATHERINE C. GRIGGS, Assistant Secretary and Treasurer.

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J. C. HUSTON, Vice-Consul in charge, American Consulate, Canton, Representative of Regents of University of State of New York.

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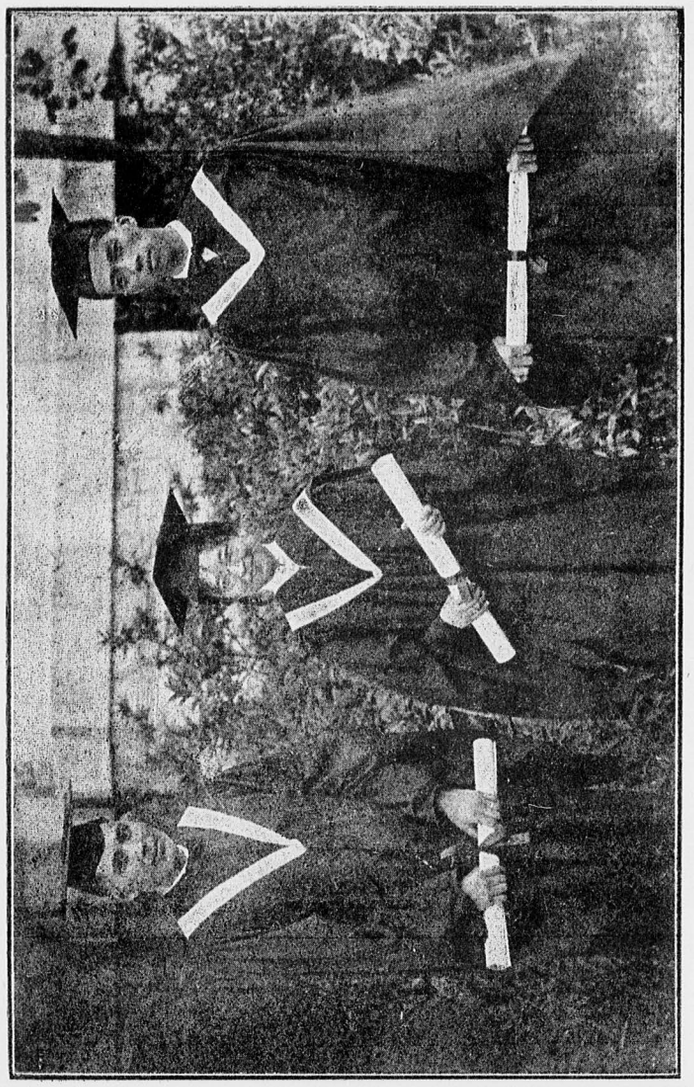

B. A. GRADUATES, JUNE 1921

KWOK LAM SHONG LEUNG TSAU MING WONG KAT CHIU

Canton Christian College

Bulletin No. 32

CATALOGUE

OF

THE COLLEGE OF ARTS AND SCIENCES

AND

THE COLLEGE OF AGRICULTURE

ACADEMIC YEAR 1922-23

CANTON, CHINA
May, 1922

Printed by the College Press

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Resident Engineer	M. L. COTTA

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Dean of College of Agriculture	G. Weidman Groff
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Assistant Supervisors	W. Sz-to J. N. Keys
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Chief Accountant	I. C. Chui

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Superintendent of Works	T. S. Lau
Store and Postal Clerk	U. F. Wong

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College of Arts and Sciences

College of Agriculture

Faculty

1922-23

晏文士 CHARLES KEYSER EDMUNDS, B.A., Ph. D., *President*; *Professor of Physics, and Director of Physical Laboratory.*

B.A., Johns Hopkins University, 1897, Ph. D., 1903; Professor of Physics, Canton Christian College, 1903- ; Vice-President, 1906; President, 1907- ; Observer in Charge, Magnetic Survey of China, Carnegie Institution of Washington, 1905-17.

鍾榮光 CHUNG WING KWONG, Chinese Second Degree, *Vice-President.*

FIRST DEGREE, Chinese Government Examinations, 1884; SECOND DEGREE, 1894; Head of Chinese Department, Canton Christian College, 1900-08, Chinese Dean, 1909-16; Commissioner of Education for Kwangtung Province, 1911-13; Study and travel in America, 1913-16 ; Vice-President, 1917-

香雅各 JAMES MCCLURE HENRY, B.A., B.D., *Executive Secretary.*

B.A., University of Wooster, 1901 ; Instructor in Biology, Alma College, 1901-02; B.D., Union Theological Seminary, 1907; Pastor, Peck Memorial Chapel, Washington, D. C., 1908-09 ; Missionary, American Presbyterian (North) Mission, Canton, 1909-19 ; Assistant in Systematic Theology, Union Theological Seminary, New York, 1916-17 ; Executive Secretary, Canton Christian College, 1919-

梁敬敦 CLINTON NEVIUS LAIRD, B.A., M.A., *Dean of College of Arts and Sciences; Professor of Chemistry.*

B.A., University of Pennsylvania, 1903; M. A., 1905 ; Instructor, Canton Christian College, 1905-09; Bursar, 1907-14; Professor of Chemistry, 1910- ; Acting Principal of the Middle School, 1913-15 ; Acting Dean, College of Arts and Sciences, 1921-22 ; Dean, 1922- .

高魯甫 GEORGE WEIDMAN GROFF, B.S., M.S., *Dean and General Director, College of Agriculture; Professor of Horticulture.*

B. S., Pennsylvania State College, 1907, M. S., 1918; Instructor, Canton Christian College, 1907-10; Professor of Horticulture 1912- ; Director of Agricultural Work, 1912-21; Collaborator of United States Department of Agriculture, Bureau of Plant Industry, 1915-17, 1921- ; Field Assistant, 1917-21. Dean and General Director, 1921- .

區勵周 AU LAI CHAU, Chinese First Degree, *Assistant Professor of Chinese Literature.*

FIRST DEGREE, Chinese Government Examinations, 1898; Graduate, Provincial Law School, Kwangtung, 1911; Government service and miscellaneous teaching experience, 1900-07, 1911-14; Instructor, Provincial Law School, 1914-15; Instructor, Canton Christian College, 1915-22; Assistant Professor, 1922- .

白士德 ALEXANDER BAXTER, REV., *Professor of Religion and Supervisor of Religious Work.*

Graduate, Hackney Theological College (University of London), 1907; Missionary of the London Missionary Society in Canton, 1907-15; appointed London Missionary Society's representative at Canton Christian College as Associate Professor, 1916-19; Professor, 1919- .

鮑令留 HENRY CHASE BROWNELL, B.A., M.A., *Professor of History.*

B. A., University of Vermont, 1908; Rhodes Scholar, Oxford University, 1910-13; B.A., 1912; M.A., Harvard University, 1919; Instructor, Canton Christian College, 1908-10; Associate Professor of History, 1913-19; Professor, 1919- .

嘉惠霖 WILLIAM WARDER CADBURY, B.A., M.A., M.D., *College Physician; Internist to Canton Hospital.*

B.A., Haverford College, 1898; M.A., 1899; M. D., University of Pennsylvania, 1902; Physician, Philadelphia, 1903-09; Instructor in Materia Medica and Therapeutics, University Medical School, Canton, 1910-14; Lecturer, Canton Christian College, 1911-17; Internist to Canton Hospital, 1914- ; College Physician, Canton Christian College, 1917- .

陳仲偉 CHAN CHUNG WAI, Chinese First Degree, *Associate Professor of Chinese Literature.*

FIRST DEGREE, Chinese Government Examinations, 1899; Student in Japan, 1901; Instructor in Kwangtung schools, 1906-12; Editor-in-chief, "Man Shaan Daily," Canton, 1912-13; Instructor, Canton Christian College, 1913-18, Associate Professor of Chinese Literature, 1918- .

陳德芸 CHAN TAK WAN, Chinese First Degree, *Assistant Professor of Chinese and History; Associate Librarian.*

FIRST DEGREE, Chinese Government Examinations, 1898; Instructor in Kwangtung, Hongkong and Macao schools, 1900-11; Managing Editor, "Man Shaan Daily," 1912-13; Instructor, Canton Christian College, 1915-22; Associate Librarian, 1919- ; Assistant Professor, 1922- .

陳輯五 CHAN TSAP NG, Chinese First Degree, *Senior Professor of Chinese.*

FIRST DEGREE, Chinese Government Examinations, 1902; Instructor in Kwangtung schools, 1902-07; Instructor, Canton Christian College, 1908-13; Acting Chinese Dean, 1913-16; Associate Professor of Chinese, 1913-17; Senior Professor, 1918- .

趙恩賜 CHIU YAN TSZ, B.S., M.A., *Assistant Professor of Chemistry.*

B. S., University of California, 1913; M.A., Columbia University, 1915; Instructor in Chemistry, Canton Christian College, 1915-1922; Assistant Professor 1922- .

鄧 勤 KENNETH DUNCAN, B.A., M.A., *Professor of Economics.*

B. A., Wabash College, 1910; M. A., University of Wisconsin, 1915; Instructor, Canton Christian College, 1911-14; Special Examiner, Insurance Commission, State of Wisconsin, 1914; Associate Professor of Economics, Canton Christian College, 1915-18; Professor, 1918- ; Dean, College of Arts and Sciences, 1917-22; *On leave, 1921-23.*

傅保光 FU PO KWONG, B.S., M.S., *Professor of Agricultural Manufacturing; Director of Agricultural Industries.*

B. S. in Agriculture, Michigan Agricultural College, 1914; M. S., 1916; Seed Selector, D. M. Ferry Seed Farm, near Detroit Mich., 1914-16; Superintendent, M. Y. San Co., Hongkong, 1917-19; Instructor in Agriculture, Canton Christian College, 1920-22; Professor and Director, 1922- .

葛理佩 HENRY BLAIR GRAYBILL, B.A., M.A., *Professor of Education; Supervisor of Schools; Principal of Middle School.*

B.A., Washington and Lee University, 1902; M.A., Columbia University, and Diploma, Teachers College, 1907; Instructor, Canton Christian College, 1903-06; Principal of the Middle School, 1907- ; Acting Dean, College of Arts and Sciences, 1915-16; Professor of English, 1915-16, of Education, 1916- ; Supervisor of Schools, 1921- .

格 禮 JOHN CORNELIUS GRIGGS, B.A., PH. D., *Associate Professor of English.*

B.A., Yale University, 1889, Ph.D., Leipsic, 1893; Professor, History of Music, Metropolitan College of Music, 1893-1898; Teacher of Singing in New York City and at Vassar College, 1897-1918; Associate Professor of English, Canton Christian College, 1919- .

考 活 CHARLES WALTER HOWARD, B.A., M.S., *Professor of Sericulture.*

B.A., Cornell University, 1904; M.S., University of Minnesota, 1913; Assistant Entomologist, Transvaal Department of Agriculture, 1905-06; Entomologist, 1906-08; Entomologist, Department of Agriculture of Portuguese East Africa, 1908-11; Special Assistant, Rockefeller Institute for Middle Research, 1911; Instructor in Entomology, Minnesota Agricultural College, 1912-13; Assistant Professor of Entomology and Parasitology, 1913-17; Associate Professor, 1917; Professor of Biology, Canton Christian College, 1917-22; Curator of Herbarium, 1918-20; Curator of Museum, 1918-22; Professor of Sericulture, 1922- . *On leave 1922-23.*

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顧 士 JAMES NOEL KEYS, B.A., M.A., *Assistant Professor of Education.*

B.A., College of Emporia, 1916; Rhodes Scholar, Oxford University, 1913-14, 1916-17; B.A., 1918; M.A., University of Chicago, 1921; Instructor in Psychology and Education, Canton Christian College, 1919-20; 1921-22; Assistant Professor, 1922- .

聶 士 ARTHUR RUSSELL KNIPP, B.A., B.S., *Associate Professor of Physics.*

B.A., Johns Hopkins University, 1907; B.S., Massachusetts Institute of Technology, 1909; Instructor, Canton Christian College, 1909-15, 1917-19; Resident Engineer, 1909-15, 1917-22; Associate Professor, 1919- . *On leave 1922-23.*

羅飛雲 CARL OSCAR LEVINE, B.S., M.S., *Professor of Animal Husbandry, Director of Research and Experiments, College of Agriculture.*

B.S. in Agriculture, Kansas State Agricultural College, 1914; M.S., Iowa State College, 1920; Instructor, Canton Christian College, 1916-19; Curator of Herbarium, 1916-19; Acting Director of Agricultural Work, 1917-18, 1920-21; Associate Professor, 1919-22; Professor, 1922- ; Director, 1922- .

盧姑娘 LILLIE DEMING LOSHE, B.A., Ph.D., *Professor of English.*

B.A., Bryn Mawr College, 1899; Ph. D., Columbia University, 1905; Instructor, Bryn Mawr College, 1906-09; Instructor, Canton Christian College, 1915-16; Professor of English, 1918- . *On leave 1921-23.*

麥丹路 WILFRID EWART MACDONALD, B.A., M.A., *Professor of Mathematics.*

B.A., University of Tennessee, 1901; M.A., Harvard University, 1907; Instructor in Mathematics, Massachusetts Institute of Technology, 1903-06; Instructor in Mathematics, Harvard University, 1908-10; Professor of Mathematics, Canton Christian College, 1910-16, 1917- ; Instructor in Mathematics, University of Pittsburgh, 1916-17. *On leave 1922-23.*

那多智 HERBERT PIERCY NOTTAGE, M.D., *Specialist, Eye, Ear, Nose and Throat; Associate College Physician.*

M.D., Harvard Medical School, 1886; Specialist, Eye, Ear, Nose, and Throat, to Queen's Hospital and Children's Hospital, Honolulu, 1909-15; Captain Medical Corps, U. S. A., 1917-8; Chief of Section of Head Surgery, Camp Cody, N. Mex., 1918-19; Associate College Physician, Canton Christian College, 1920- .

彭美賚 OWEN E. POMEROY, B.A., *Bursar and Business Manager; Lecturer in Business.*

B.A., Harvard University, 1905; Instructor, Canton Christian College, 1905-08; Merchandise Manager, H. Batterman Co., New York, 1910-13; Bursar and Business Manager, Canton Christian College, 1914- .

史堅那 MACY MILLMORE SKINNER, B.A., M.A., Ph.D., *Professor of Business Administration.*

B.A., Harvard University, 1894; M.A., 1895; Ph. D., 1897; Instructor, Harvard University, 1899-1905; Assistant Professor, Stanford University, 1905-14; Assistant Professor of Business Administration, University of Washington, 1917- ; Dean of Men, 1917-19; On leave of absence to Canton Christian College, 1921-23.

施福樂 WILLIAM WARREN STIFLER, B.A., M.A., Ph.D., *Visiting Professor of Physics.*

B.A., Shurtleff College, 1902; M.A., University of Illinois, 1908; Ph.D., 1911; Assistant in Physics, University of Illinois, 1907-09; Instructor, 1909-10; Instructor in Physics, Columbia University, 1912-17; Head of Physics Department, Peking Union Medical College, 1917-22; Dean of Pre-medical School, 1918-22; Visiting Professor of Physics, under China Medical Board, at Canton Christian College, 1922-23.

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柯 嘉 WILLIAM RUSSELL AUGUR, B.A., *Instructor in Accounting.*

B.A., Williams College, 1915; at Canton Christian College, 1915- ; Assistant Bursar, 1920- .

巴羅贊 JOHN V. BARROW, B.A., *Instructor in Religion.*

B.A., University of Texas, 1915; at Canton Christian College, 1916-20, 1921- ; Librarian, 1917-19; Acting Principal of the Middle School, 1919-20.

布士維 KARL PORTER BUSWELL, B.A., *Instructor in Biology, Curator of Herbarium.*

B.A., University of Minnesota, 1920; at Canton Christian College, 1920- ; Curator of Herbarium, 1920- .

金巴路 ARTHUR SHACKLETON CAMPBELL, B.A., *Instructor in Biology.*

B.A., Pomona College, 1920; at Canton Christian College, 1921- .

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陳受頤 CHAN SHAU YI, B.A., *Instructor in Chinese Literature.*

B.A., Canton Christian College, 1920; at Canton Christian College, 1920- .

陳紹舜 CHEN SHAO SHUN, B.S., M.S., *Instructor in Agriculture.*

B.S. in Agriculture, University of Illinois, 1919; M.S., Mississippi Mechanical and Agricultural College, 1920; Director of Agricultural Experimental Station, Foochow, 1921; at Canton Christian College, 1922- ; in charge of translations, College of Agriculture, 1922- .

張焯坤 CHEUNG CHEUK KWAN, B.S., *Instructor in Horticulture.*

B.S. in Agriculture, Cornell University, 1916; at Canton Christian College, 1921- .

程葆元 CHING PO YUEN, *Artist, College of Agriculture.*

吉 第 MAURICE LAROY COTTA, B.S., *Resident Engineer.*

B.S. in Municipal and Sanitary Engineering, University of Illinois, 1920; Instructor and Assistant Resident Engineer, Canton Christian College, 1920-21; Resident Engineer, 1922- .

鍾寶璇 CHUNG PAU SIEN, B.S., M.S., *Instructor in Animal Husbandry.*

B.S. in Agriculture, Iowa State College, 1917; M.S., University of Illinois, 1918; Official Inspector of Dairies in Iowa, 1918; Y.M.C.A. Secretary, Chinese Labor Battalion in France, 1918-21; at Canton Christian College, 1922- .

鄧其芝 EDWARD DING, B.S., M.S., *Assistant in Horticulture.*

B.S. in Agriculture, Oregon Agricultural College, 1920; M.S., 1921; at Canton Christian College, 1922- .

方孝常 WALTER LEON FUNKHOUSER, B.S., *Instructor in Animal Husbandry.*

B.S. in Agriculture, Pennsylvania State College, 1920; at Canton Christian College, 1919-22. *On leave 1922-23.*

高綺梨 ELIZABETH HOWRY GROFF, *Research Assistant.*

Secretary, Canton Christian College, 1915-19; Botanical Assistant, Office of Crop Physiology and Breeding Investigations, United States Department of Agriculture, Washington, D.C., 1919-21; Research Assistant in co-operative work with Office of Crop Physiology and Breeding Investigations, 1921- .

何 亮 *HOH LEUNG, *Assistant in Research and Experiments, College of Agriculture.*

何爾達 ALFRED HUBBARD HOLT, B.A., *Instructor in English.*

B.A., Williams College, 1920; at Canton Christian College, 1920- .

郝士華 HARVEY WALTER HOUSE, B.S., *Instructor in Chemistry.*

B.S. in Chemical Engineering, California Institute of Technology, 1920; at Canton Christian College, 1921- .

甘乃光 †KAM NAAI KWONG, *Assistant in Business Administration.*

簡 奮 FRANK KAN, B.S., M.S., *Instructor in Agronomy.*

B.S. in Agriculture, Oregon Agricultural College, 1916; M.S., Texas Agricultural and Mechanical College, 1918; at Canton Christian College, 1922- .

郭華秀 KWOK WA SHAU, *Assistant in Horticulture.*

Graduate Kwangtung Agricultural College, 1916; in charge of citrus co-operative work with United States Department of Agriculture, 1921- .

林建中 LAM KIN CHUNG, *Extension Assistant in Swatow.*

李士瀛 LEI SZ YING, B.A., *Instructor in Rural Sociology, and Executive Secretary of Board of Management, College of Agriculture.*

B.A., Young Men's Christian Association Training School, Chicago, 1920; at Canton Christian College, 1920- .

李威士 LEI WEI SZ, *Assistant in Sericulture.*

賴 賢 GEORGE EDWARD LYON, B.A., *Instructor in Business Law.*

B.A., University of California, 1914; Member San Francisco Bar, 1921; at Canton Christian College, 1921- .

*Candidate for degree of Bachelor of Science in Agriculture, Canton Christian College, 1922.

†Candidate for degree of Bachelor of Arts, Canton Christian College, 1922.

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莫古聚 FLOYD ALONZO MCCLURE, B.A., B.S., *Instructor in Horticulture.*

B.A., Ohio State University, 1918; B.S., 1919; at Canton Christian College, 1919-22. *On leave 1922-23.*

倫秩師奶 MINNIE C. RAND, Mrs., B.A., *Instructor in Home Economics.*

B.A., Winona College, 1916; Instructor in Home Economics, Winona College, 1916-19; At Canton Christian College, 1920- .

沈會儒 EDWARD SHIM, B.S., *Instructor in Agronomy.*

B.S. in Agriculture, Kansas State Agricultural College, 1916; Miscellaneous experience teaching and investigational work in Agriculture in Hawaii and the Philippines, 1916-21; at Canton Christian College, in charge of work in Agronomy, 1921- .

邵堯年 SHIU IU NIN, *Assistant in Agronomy.*

譚卓垣 †TAAM CHEUK WOON, *Associate Librarian.*

韋 憩 SIDNEY KOK WEI, B.A., Ph.D., *Instructor in Philosophy and Government.*

B.A., Oberlin College, 1915; Ph.D., University of Chicago, 1920; at Canton Christian College, 1921- .

黃澤普 *WONG CHAAK PO, *Assistant in Sericulture.*

活 德 MORRIS WISTAR WOOD, B.S., *Instructor in Physics.*

B.S. in Mechanical Engineering, University of Pennsylvania, 1921; at Canton Christian College, 1921- .

楊國荃 YEUNG KWOK TSUEN, B.A., M.A., *Instructor in Education.*

B.A., Canton Christian College, 1920; M.A., Stanford University, 1921; at Canton Christian College, 1921- .

袁漢邦 YUEN HON PONG, *Assistant in Agricultural Industries.*

Head Forester, Botanical and Forestry Department, Hongkong, 1908-18; at Canton Christian College, 1921- .

*Candidate for degree of Bachelor of Science in Agriculture, Canton Christian College, 1922.

†Candidate for degree of Bachelor of Arts, Canton Christian College, 1922.

Special Lecturers

The following named gentlemen have kindly consented to deliver one or more lectures at the College during the academic year 1922-23 on a topic chosen in the field of their major interest.

區其章 KEY W. AU, B.S., M.A., *Industrial Chemistry*
Chemist, China Commercial Company, Hongkong.

湛羅弼 ROBERT EDWARD CHAMBERS, D.D., *Christian Literature*
China Baptist Publication Society.

陳秋安 CHAN CHAU, B.A., *Economics*
President, China Commercial Company, Hongkong.

祁約翰 JOHN WALLIS CREIGHTON, B.A., Ph.D., B.D., *Education*
Principal, True Light Seminary.

馮世安 CHESTER GARFIELD FUSON, B.A., F.R.G.S., *Education*
Normal Department, Union Middle School.

龔約翰 J. Stewart Kunkle, M.A., B.D., *Religion*
President, Union Theological College.

關恩佐 KWAN YAN CHO, B.S., *Education*
Principal, Union Middle School.

李蹄綸 FRANK W. LEE, *International Relations*
Commissioner for Foreign Affairs, Kwangtung Provincial Government.

郭泰祺 QUO TAI-CHI, B.A., *Government*
Commissioner for Civil Affairs, Kwangtung Provincial Government.

孫 科 SUN FO, B.S., M.A., *Government*
Mayor of Canton.

鄧植儀 T. Y. TANG., B.S. IN AGRICULTURE, M.S., *Agriculture*
Director of the Agricultural and Forestry Station,
President of the Agricultural College, Canton.

黃啓明 WONG KAI MING, B.S., M.A., *Education*
President, Pui Ching Baptist Academy.

伍朝樞 C. C. WOO, B.A., *International Relations*
Vice-Minister of Foreign Affairs, Southern Government.

胡繼賢 WOO KAI IN, B.S., *Economics*
General Manager, China Commercial Company, Hongkong.

尹耀聲 WAN IU-SHING, B.S., *Industrial Chemistry*
General Manager, Yat Sun Soap Manufacturing Co., Hongkong.

Location of the College



THE CANTON CHRISTIAN COLLEGE, known in Chinese as 嶺南大學 *Ling Naam Taai Hok*, is situated in a suburb of Canton, the metropolis of Kwangtung Province. The College property lies along the Pearl River, on the north shore of the island of Honam, two and a half miles east of the center of the city. Canton is easily reached by either train or river steamer from the port of Hongkong, ninety miles away.

The College has a campus of about three hundred acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from 40 to 70 feet above the river, which affords beautiful views in all directions. There are fifty-three permanent buildings of brick and reinforced concrete, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office known as *Honglok* (康樂), an agency under the Canton postal administration, on its campus. The address of the College is Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day from the end of the Bund near the Canton-Kowloon Railway station.

History of the College

THE HISTORY of the Canton Christian College on its present site dates from 1904.

Its rapid expansion and success during this time owes much, however, to the bold aims and persistent efforts of a small group of men during the twenty years previous. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his Board for a Christian College in Canton, and the next year one of his colleagues, Rev. A. P. Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to use English as the medium for teaching Western subjects, and to have as broad a purpose as the

American University at Beirut. Though five of the seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools, and for contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moreover, needed leaders of Christian faith and ideals in every sphere of life.

Dr. Happer had received a petition from no less than four hundred Chinese, including the most prominent officials, scholars, gentry and merchants of Canton, requesting that a high grade school be started under joint American and Chinese auspices; and in 1898 President Wisner received a petition signed by fifty-four pastors, licentiates, teachers and elders of all denominations in and near Canton urging that the College be maintained in Canton to serve the church as a whole.

Mr. Henry Martin, Dr. Happer himself, and others formed the initial fund, and the school was incorporated under the laws of the state of New York in 1893. For a time the Trustees owned the property and carried on the school of the Presbyterian Mission, Fati, but in 1898 they resold this property to the Mission, and the next year started a separate school with Rev. O. F. Wisner as president. This was moved to Macao during the Boxer disturbances and remained there four years while the small rice fields, bamboo groves, ponds and innumerable grave plots near Canton, on which the College could be built, were gradually being acquired.

A part of the original fund was invested in a large three-story classroom building, ant-proof and fire-proof from cellar to roof, the first of its kind in China. For four years more the College waited for its second permanent building. Then in 1909 came a dormitory from Chinese friends who had proved to themselves the worth of the school, and this was rapidly followed by five more dormitories, until the sums specially contributed by Chinese toward the upbuilding of the institution amounted to hundreds of thousands of dollars.

About 1909 American friends began giving residences for the staff, a water system, etc., and construction has gone forward without interruption, even by the European War. There are now twenty-two houses on the hill, and above them all, Grant Hall, a splendid

administration building provided by Mrs. J. S. Kennedy in 1915. That year saw completed, in another commanding position and also of special architectural interest, an auditorium and Christian Association building, the gift of Mr. Ambrose Swasey.

More recently the college has received a notable addition in the two buildings donated by its first Chinese Trustee, Mr. Ma Ying Piu. One is the Infirmary and the other is a guest house near the entrance gate. The generosity of these and many other liberal givers is specially remembered each year on Founders Day, an occasion when it is possible, too, for the whole College community to express its gratitude to the one who has had a larger share than any other in making the present institution, Mr. W. Henry Grant, for twenty-five years the untiring Secretary of the Trustees.

The fifteenth anniversary of the establishing of the college on its present site was celebrated by a Pageant on November 29, 1919. More than four thousand guests were entertained and given every facility for seeing the material growth and future prospects of various departments. An important feature marking this anniversary was the completion of a large dormitory, *Java Hall,* for the exclusive use of students in the two Colleges. In 1921 a sixth large dormitory, *Chang Hall,* was completed. This has been especially designed for students returning from distant Chinese settlements to acquire an education in the homeland. Another dormitory, also to be used only by College students, is now in the course of erection. The funds for this building were secured by the students in campaigns which they conducted during their vacations.

Two other new structures, the Sericulture Building given by the Silk Association of America, and its companion, the Sericulture Extension Building given by Mr. Marcus Frieder, were completed in 1921 and are now in full use.

More important however than grounds and physical equipment to any institution are those less tangible but no less real assets of purpose, ideals, courage, wisdom and organization. The declaration of the College was as follows: "The purpose of the Trustees of Canton Christian College is to establish in Canton and adjacent territory in China, an institution of learning of the highest standards of educational efficiency, under Christian influences." In striving toward this end many problems new and peculiar are met, apart from such as accompany ordinary educational work. That progress in

these lines should be commensurate with growth in buildings and organization has been possible only through the exercise of great wisdom by both the authorities in New York and the workers in the field. The plant is used to capacity, and so far as those directly interested in the work may judge, the measure of educational result in the various schools is fairly indexed by the physical growth of the institution.

The Elementary School, started in a near-by village as a Student Christian Association enterprise, has been transferred to the campus and become a regular model department, with five attractive cottages built with gifts from Chinese, each having dormitory and classroom space for thirty children. A central hall, the gift of Mr. Tan Kah Kee of Singapore, provides an assembly room and a demonstration classroom, as well as a central kitchen for the group of cottages.

In the interest of establishing high standards all along the line, and as a foundation for its own collegiate work, the Canton Christian College felt from the first the necessity of maintaining a strong secondary school. Indeed thus only, through a Middle School, did the college department become a possibility. And now, even with encouraging numbers of college applicants coming from the mission schools and elsewhere, the adequate development of the Colleges of Arts and Sciences and of Agriculture must for many years still depend largely upon the feeding capacity of the Canton Christian College Middle School. In addition, however, to preparing students for college, the Middle School aims to give an all-round training, and to meet the needs of those who must go out into active life without further study.

While the activities of the Christian Association have been steadily expanding and several dependent village schools opened, the increasing number of those who have joined the Christian church while students has been a source of great encouragement.

In athletics the students have won an enviable prestige among Canton and Hongkong schools, besides excavating with their own hands a large swimming pool near the river, an unfailing source of physical benefit as well as real enjoyment.

The London Missionary Society in 1915 set apart one of its workers to become the professor of religion in the College. This is the most striking though not the only way in which the missions

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have sought to cooperate and it will be followed, it is to be hoped, by similar steps on the part of others.

In 1907 an agriculturist joined the staff and the college garden, begun at that time, has developed into the College of Agriculture which is now conducting all the general agricultural instruction, and which is projecting important lines of service in agricultural research, extension and industry. The College of Agriculture was organized in the year 1921 under a separate Board of Management which meets at Canton and which is responsible for its growth and development. The Kwangtung Provincial Government makes liberal grants to the College of Agriculture, and the balance of its budget is financed by other Chinese friends. Various western interests, including the Pennsylvania State College and Kansas State Agricultural College groups, are fostering the development with both technical and financial assistance.

So far more than a hundred students have gone from the Canton Christian College to American and European universities. The aim, however, is to prepare students at Canton to give as effective service to their country as if they had studied abroad.

In 1916 changes were introduced providing for a College proper, with a student life distinct from that of the Middle School, so that the nucleus of college students which had existed for many years then became a true college community. This phase of the work of the Canton Christian College is being emphasized so as to meet the pressing need in South China for men of the highest training to become the teachers and leaders of their people.

A great step forward in the unification and strengthening of education in the province was taken in January 1920 by the Canton Missionary Conference and the Kwangtung Christian Educational Association in projecting a system of University Colleges. In the Program of Advance then adopted the following recognition and recommendation were made: "Article 14. The College of Arts and Sciences of the Canton Christian College shall be the College of Arts and Sciences of the system. The Schools of Education and Agriculture should be developed on the basis of the work already under way in these departments of the Canton Christian College, which should also further develop its courses in Commerce (Business Administration) and introduce courses in Journalism. In order to enable the Canton Christian College the more adequately to meet the

expanding needs of the Program of Advance, the various missions are urged to contribute to the Canton Christian College men specially qualified for work in its existing or proposed schools of Collegiate grade."

Reference to later pages of this catalogue will show that the College is now offering well-rounded four year courses in Agriculture, Business Administration, Chemistry and Education in addition to the courses in General Arts.

The College Library

THE COLLEGE LIBRARY, now in Grant Hall, has two distinct sections,—one in Chinese, and one in foreign languages, chiefly English. The English collection contains approximately 13,500 volumes and the Chinese books number about 29,500. Several departments are also equipped with books, loaned from the main collection.

The library aims to serve the needs of students in the various college courses. Besides the material in the library itself, faculty members customarily place their private libraries at the service of students, so that students have access to not less than 17,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, the social sciences and education, are unusually well-selected and valuable.

Over two hundred periodicals, weeklies and monthlies, general and technical, are kept on file, the more valuable ones being bound, and used for departmental research work.

Daily newspapers from Canton, Hongkong, Peking, Shanghai and Tokyo are taken. THE CANTON TIMES and the weekly edition of THE NORTH CHINA HERALD are bound for permanent shelving.

The foreign library is classified according to the Dewey decimal system, with the exception of the books on China, for which there is special classification. As far as available, Library of Congress cards are used, and further, the library subscribes to all cards issued relating to China, whether the books represented by the cards are in the College Library or not. This bibliography of China is kept in a separate file and, containing both author and title cards, affords an index to a large part of the existing foreign literature on China.

The library is a repository for publications of the Carnegie Institution of Washington, the Carnegie Endowment for International Peace, the United States National Museum, many departments of the United States Government and several administrations of the Chinese Republic, as well as for publications of other governments.

The Library is open both day and evening. Students have direct access to the shelves.

The College Museum

THE COLLEGE MUSEUM, located in Martin Hall, has a selection of articles and specimens of general and scientific interest. In the collection are over a hundred stuffed birds, 250 bird skins, about 500 specimens of woods, about a thousand coins, including many ancient Chinese coins, a number of fossil and mineral specimens, collections of local butterflies, moths, insects and reptiles, several industrial exhibits, and miscellaneous articles of archeological, scientific and popular interest. The museum is equipped with proper cases for the preservation and display of its specimens.

The College Herbarium

THE COLLEGE HERBARIUM is the center for the study of the flora of the region which the college influences. Various agencies are at work with the college in assembling scientific and economic data concerning the plants preserved in the herbarium. The acquisition of local and literary plant names, and their relation to Chinese literature, has been an important phase of the undertaking. A Latin-Chinese index to the plants in the herbarium has been prepared by the college and photographed in the Office of Crop Physiology and Breeding Investigations of the United States Department of Agriculture.

All of the material has been named by Prof. E. D. Merrill of the Philippine Bureau of Science, to whom the college is indebted, as also to Mr. Walter T. Swingle of the United States Department of Agriculture, for assistance in the organization of the herbarium. The collection now contains more than eight thousand sheets of Kwangtung plants representing at least three thousand species, a number of which are newly described. One family, one genus and more than thirty species are reported new to Kwangtung and at least ten species new to China.

Publications

THE COLLEGE has issued a few *text-books* in English and in Chinese and issues *special bulletins* upon scientific subjects. A list of these is given elsewhere in this catalogue.

南大 THE CANTON CHRISTIAN COLLEGE MAGAZINE, or NAAM TAAI MAGAZINE, a bulletin of information on college matters, is published quarterly in Chinese and is mailed to subscribers for $0.60 per year.

南風 NAAM FUNG, also in Chinese, is a publication of a literary nature carried on by the students. The subscription price is $1.00 per year.

THE STUDENT CHRISTIAN ASSOCIATION issues a weekly news sheet (嶺南青年報) in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is $0.60 per year.

THE DAILY METEOROLOGICAL RECORD, a bulletin issued quarterly, gives a record of the meteorological observations made each day at the Freeman Meteorological Observatory, together with monthly summaries.

The College of Agriculture issues a monthly agricultural extension circular in Chinese, an agricultural quarterly in Chinese and a semi-annual agricultural review in English.

The following *bulletins* and *leaflets* are issued to give information about the school, and may be obtained by writing to the head of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

NAME	CHARACTER
Calendar	Chinese leaflet on dates, fees, entrance, etc.
Catalogue of Colleges of Arts and Sciences, and of Agriculture	English bulletin on courses, regulations, etc.
Catalogue of College of Agriculture	Chinese bulletin on courses, regulations, etc.
Middle School Catalogue	Chinese bulletin on courses, regulations, etc.
Elementary School	Chinese leaflet on courses, fees, etc.
Summer Session	Chinese leaflet on courses, fees, etc.
"Taai Koon" (大觀)	Chinese bulletin, illustrated, for contributors.
"Canton Christian College"	English booklet, illustrated. Price $1.00.

College Organizations

College Student Union

The College Student Union is the official organization of the entire College student body. It enjoys liberal powers of self-government and control of matters of general student interest. Its constitution provides for an executive committee, and special committees responsible for discipline, athletics, boarding and social matters. It elects its officers and committee-men each semester.

Student Christian Association.

The Student Christian Association provides students with facilities for voluntary religious activities and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well equipped center for such purposes. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night schools for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall. The Association employs a General Secretary, publishes a weekly paper in Chinese, and a fortnightly newsletter in English.

Student Council

The Student Council is composed of the following members: the President of the Student Christian Association, the President of the College Student Union, the Middle School Student Representative, and the President of the Canton Christian College or his appointee. Its function is to provide efficient means of conducting any affairs that concern the students of more than one school. It may, when necessary, call meetings of the students through the proper representatives.

Arts and Science Club

The Arts and Science Club is an organization of the Faculty and advanced students of the College the object of which is to stimulate its members to keep abreast of modern scientific ideas and to encourage reports on original investigations.

Membership may include any of the English-speaking Faculty of the entire College. All other English-speaking persons on the campus, including Freshmen, Sophomores, Juniors and Seniors, are eligible for associate membership. There are no dues.

Regular meetings are held once a month and special meetings are called from time to time to hear distinguished visitors.

Agricultural Society

The purpose of the Agricultural Society is to develop interest in the agricultural work of the College, and to promote agricultural education, investigation and extension in South China. Membership is active, associate, or honorary. The society meets on the first Monday of each month during the academic year.

Economics Association

The faculty and students of economics and business administration have organised the Economics Association to promote interest in and investigation of important economic questions. Monthly meetings are held and students and teachers wishing to join are welcomed.

Education Club

An Education Club has been organized by members of the faculty and students of education to promote interest in and investigation of important educational questions. Teachers and students wishing to join will be welcomed and may always obtain information at the Education office.

Athletics

Students are expected to take regular daily exercise and playground space is provided that all may take part in athletic games. There are five foot ball fields, ten basket ball courts, four volley ball courts, fifteen tennis courts, a swimming pool, and a running track available for use. The College has teams in the various athletic leagues in Canton, competes with Hongkong schools and is represented in each Far Eastern Olympic competition.

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College Band

A band of twenty-five pieces is under the leadership of a specially trained member of the staff. Students wishing to join may obtain information at the office of the Dean.

College Bookstore

The College Bookstore, located in Grant Hall, maintains a stock of text-books and other school supplies required by students. These are sold practically at cost.

College Bank

The College Bank receives current and time deposits, and furnishes local bank facilities. Parents and guardians will find it convenient in connection with the handling of funds for students to send such funds to the bank with instructions regarding payments.

College Press

The College Press serves the College and community for job and book printing, both in English and Chinese. Many of the English bulletins of the College, including this catalogue, are printed by the College Press.

Organization of the Schools

THE CANTON CHRISTIAN COLLEGE comprises three grades of schools: The Elementary school (7 years), the Middle School (4 years, including the Sub-freshman year), and the Colleges of Arts and Sciences, and of Agriculture (each 4 years, excluding the Sub-freshman year).

The Elementary School, housed in a series of six buildings of its own, and forming a complete and separate administrative unit, consists of a lower primary department of four years for boys and girls, and a higher primary department of three years for boys only. Covering the age of childhood from about eight to fifteen, it aims to provide an atmosphere of both home and school by giving each class and its two teachers a cottage as a family center for its life and study.

The Middle or Secondary School, corresponding to the high school or college preparatory in the United States, is a middle school for boys only and meets the special problems of the formative years beyond thirteen or fourteen. Girls may be admitted into the fourth year (Sub-freshman) class.

For administrative purposes the fourth middle school year is temporarily included under the College of Arts and Sciences as a Sub-freshman year. At present there are, therefore, only three years under the Middle School administration. The Middle School gives a certificate to those who have completed the four-year course of study.

The College of Arts and Sciences

This is open to both men and women and at present comprises four years and also one year which is of Middle School rank but is grouped with the College for administrative purposes. The five years are called Sub-freshman, Freshman, Sophomore, Junior and Senior respectively.

In general, the purpose of the College of Arts and Sciences is to fit students for definite lines of intelligent leadership and service in China. With this end in view, the College offers instruction in seven groups of associated studies, each of which is planned to prepare students to meet successfully problems now demanding study and solution in their country. A more complete and detailed statement of these courses is given in a subsequent section.

The College of Arts and Sciences furnishes students a collegiate education of the thoroughness and general excellence of that to be obtained in the colleges and universities of foreign countries. The student has the advantage of keeping in close touch with his own country and of correlating his education with the economic, social and general scientific needs of China.

It is felt that Chinese students can be of largest service to their country if their collegiate education be fully provided in China; that only the occasional student seeking further research will need to go abroad for study, and then only for graduate work of a highly specialized character.

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The Canton Christian College offers unusual facilities in its College of Arts and Sciences. Each student is under the special care of a *faculty advisor*, with whom the student can confer freely, not only on academic matters but on personal affairs as well. Each student should feel that his advisor is genuinely interested in his welfare and it is to the advantage of the student to seek his advice and help.

The *college physicians* attend all students who may require medical attention and give each student a thorough medical examination annually.

For other details as to the College of Arts and Sciences, see the appropriate sections that follow in this catalogue.

The College of Agriculture

This is also open to men and women. The number of classes, purpose, scope and general facilities parallel those recorded above for the College of Arts and Sciences, but relate wholly to agriculture. The College offers courses chiefly in five departments of agricultural instruction. The divisions of research and experiment, extension, and industry provide the student with unusual opportunities to apply his learning to conditions as they exist in China. Herein is one of the greatest advantages of taking undergraduate agricultural training in China rather than abroad.

For other details as to the College of Agriculture, see the appropriate sections that follow in this catalogue.

Summer Session

In addition to the regularly scheduled work of the academic year, a Summer Session of one month is held. This consists, firstly, of courses not offered during the regular session, for those desirous of extra credits, and secondly, of supplementary short courses of both College and Middle School grade for those who are deficient in entrance requirements or in class standing. Further information on the Summer Session is obtainable from the Dean. A special leaflet is issued in June of each year.

College of Arts and Sciences
College of Agriculture

Admission

APPLICATION FOR ADMISSION to either the College of Arts and Sciences or the College of Agriculture is made to the respective Dean. This should be done some time in advance of the beginning of the academic year so that the applicant may be advised in case admission appears improbable or impossible. The intending student should procure a blank application for matriculation, fill it out completely, using the same name under which he has been enrolled elsewhere. The student must not change his name during his period of study, and should adopt the standard of romanized spelling used by the college.

An applicant must have a clean record from the school or schools last attended, evidenced by a leaving certificate indicating honorable dismissal or withdrawal. He should be able to furnish a detailed statement of work done in middle school, certified by the principal or proper officer of the school from which he comes. Blanks for this purpose may be secured on application to the Dean. New students who fail to present adequate credentials can be admitted only provisionally.

Admission to the Sub-freshman Class

To enter the *Sub-Freshman Class* (Fourth Year Middle School) the applicant must present a certificate of sufficiently high standing from an accredited school, or else be able to pass examinations on the following work: English Grammar and Composition, with sufficient readiness of speech and understanding to enable him to do his work through the medium of the English language; Algebra as far as quadratic equations; Plane Geometry; Business Arithmetic; Geography of the World; Elementary Science, including simple Physiology and Hygiene; Chinese History; History in brief of one Western country; Chinese Literature, and creditable skill in Chinese Composition.

Admission to the Freshman Class

To enter the *Freshman Class* the applicant must offer in addition to the above the following: Ancient and Mediæval History; Intermediate Algebra (including progressions and logarithms); Solid

Geometry or Plane Trigonometry; General Science* with laboratory work and note-book records; and some knowledge of English Literature. Other subjects of equivalent value may be offered in place of those enumerated above. A fair knowledge of the Bible will receive due credit. Each case will be judged on its merits. The Dean will welcome correspondence on individual cases.

Admission on Advanced Standing

To enter with advanced standing, in addition to satisfying the requirements for admission to the *Freshman Class*, the applicant must present a transcript of work of collegiate grade done elsewhere for which credit is desired. No credit can be granted for work unless it is more advanced than any offered in the *Sub-Freshman* year. The transcript should show clearly the courses pursued, texts or description of courses, hours per week, length of hour, number of weeks, whether year course or half-year course, grade obtained, basis of grading and pass, credits allowed, etc., and must be certified to by the proper officer of the institution in which the work was done.

Accredited Schools

Schools with standards similar to those of the Middle School of the Canton Christian College may become accredited schools and recommend their students for admission without examinations.

Once a school has become accredited, in order to have its graduates admitted without entrance examinations, it needs to observe only the following conditions: (1) Each year a statement of the work done by the next graduating class during its four years course should be submitted for approval to the Dean not later than January first, in order that the name of the school may be published in the College Catalogue, and (2) The individual graduated must be recommended by the principal as being capable of doing College work.

The accredited schools for 1922-23 are

Haigh College	Swatow Academy
Pooi To Middle School	True Light Middle School
Pui Ching Middle School	Union Middle School

*Or a good laboratory course in Physics.

Senior and Junior Local Certificates

Students who have passed the matriculation examination of the University of Hongkong or who hold certificates of the senior Oxford and Cambridge local examinations, will be admitted to the Freshman class without further examination on the subjects covered by the senior local certificate, except Chinese.

Students who have passed the junior locals of the University of Hongkong, or of Oxford and Cambridge, will be admitted to the Sub-Freshman class without further examination on the subjects covered by the junior local certificate, except Chinese.

Entrance Conditions and Special Students

Applicants deficient in one or two subjects may be admitted with conditions, but such conditions must not exceed two in number and must be removed within one year. Special tutoring may be secured.

A student deficient in more than two subjects, or who fails to remove entrance conditions within one year, may be entered as an unclassified or special student, and enroll in such courses as he may be able to undertake with profit, subject to the approval of the Dean and the instructors concerned.

Matriculation and Enrollment

ON FIRST ENTERING either College the applicant will be given an *application form*, which he may fill out assisted by the Dean or his probable Advisor. A matriculation fee of $1 H.K. must be paid to the Bursar. The applicant will then be examined and classified by the Dean and will secure from the Dean or his Advisor an *enrollment card*. In consultation with his Advisor or Dean the student will indicate the particular courses for which he expects to enroll. When this card has been signed by the Advisor and Dean, the student will take the card to the Bursar for the payment of his fees. One portion of the card, on which will be indicated the courses for which the student has registered, and which will bear the signature of the Advisor and Dean, and the receipt-stamp of the Bursar, will be returned to the student by the Bursar. The student will consult the *roster* or *schedule of classes* found on the bulletin board, and determine his own schedule for each week.

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The acceptance of an applicant by a College for the first time is called his *matriculation.*

When a student enters the College after having been matriculated or re-enters the College as an old student the act is called his *enrollment.*

On going to classes for the first time, the student should exhibit his receipted enrollment card to each teacher, who may enroll him as a member of the class. In case the student is not able to present a receipted enrollment card the first time, he must show a statement from the Bursar to the effect that the payment of fees has been arranged for. *No credit* can be given for work done unless a student is properly enrolled in a class, nor can any student be permitted to attend classes without having been properly enrolled, except by special permission of the Dean. Therefore it is to the interest of each individual student to make sure that he accomplishes his own registration each semester in each class.

No change can be made in the enrollment schedule of a student after he has once enrolled, except by permission of both Advisor and Dean. As this permission will be given only for good reasons that could not ordinarily have been foreseen at the time of enrollment, students should make very sure of their schedule of courses at first enrollment. Permission to change courses will not be given later than ten days from the date when the student enrolled, and no course may be dropped later than six weeks from the beginning of the semester. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Dean.

Students enrolling four weeks or more after the opening of a semester cannot receive full credit for work done during that semester, even though they are able to make up all work lost.

Unless specially excepted, a student must enroll in one of the prescribed groups of courses. A student may elect any subject open to his class and suitable to his line of study, provided, of course, he shall have had the prerequisite courses.

No student will be permitted to continue in the study of any subject, if the instructor in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. Any instructor may at any time exclude from his course any student, who in his judgment has neglected the work of the course.

Credits and Standing

A STUDENT IS RANKED according to the number of credits* he has secured. A student having less than 30 credits shall be ranked as a *Freshman,* one having 30 but less than 65 credits as a *Sophomore,* one having 65 but less than 100 as a *Junior,* and one having 100 credits or more as a *Senior.*

At least sixteen credits must be attempted each semester, except in case of illness or when a student is doing other work of recognized character. The maximum number of credits which a student may take in any group in either College, other than the Chemistry and Pre-medical groups in which the courses are prescribed, is eighteen. However, students whose average in any semester is between 80 and 85 may elect up to twenty credits the following semester, and students whose average in any semester is 85 or above may elect up to twenty-three credits the following semester.

Half-time teachers may not enroll for more than twelve credits in one semester, except that credit for practice teaching may be obtained in addition.

Credit may be given for work, without regard to how small the amount may be which is done at one time, provided it be of approved quality. All credit is given by points or credit-hours. In general, one credit-hour represents one hour a week of class-room work or two hours a week of laboratory or field work for one semester. Fractional credits are not granted.

Not more than six credits may be obtained in one semester by special extra-class or reading courses, and this privilege is limited to Juniors and Seniors. Such credits may not be given in excess of the maximum of credits for the class and course.

Credit may be secured by non-resident students for satisfactory work done by visits or by correspondence but not over thirty credits thus obtained may count toward a degree.

As a rule the College expects to give any course offered if a sufficient number of properly qualified students apply, but it reserves the right to alter or to withdraw any course.

* One credit is represented by one hour lecture or recitation or two hours laboratory work per week per semester.

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Conditions and Failures

The passing grade is a semester mark of 70 or higher. A student receiving a grade less than 70 but not lower than 60 in any subject, or whose work is incomplete, shall be conditioned in that subject.

Such a condition received at the end of the first semester must be removed by re-examination within the first four weeks of the second semester. If received in the second semester it must be removed before the beginning of the next academic year.

A student failing to remove a condition within the prescribed time, or receiving a grade below 60, is recorded with a failure in that subject, and cannot receive credit for the subject in question unless he repeats the course in class.

Fees, Deposits and Expenses

FEES

All are in Hongkong Currency and all except Laboratory Fees are to be paid before residence is taken up.

Tuition	*1st Sem.*	*2nd Sem.*	*Year*
Sub-freshman	$100	$60	$160
Freshman to Senior	75	50	125
Laboratory (due within 5 days after registering for course)			
Biology, each semester of each course			5
Physics			15
Chemistry, according to course taken, varies from $10 to $30			
Home Economics laboratory fee in each course			5
The classes in cookery also pay for food actually supplied; approximately $6.00 per semester.			
Trips and Camping (approximate)			6

Quarters	*1st Sem.*	*2nd Sem.*	*Year*
Usual space	$25	$25	$50
Special quarters, when available	15	15	30
Board	30	30	60

	1st Sem.	*2nd Sem.*	*Year.*
Laundry	5	5	10
Student Union	3	2	5
Registration Fee (Required of all applicants for admission to the College)			1
Guarantee Deposit			10
Gown (on entrance and whenever needed)			8

Special Examinations

Entrance examination not at a scheduled time	4
Re-examinations except the first, or special, each subject	2

Delinquency Fee

A student who is late, either in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of $2 a day, with a maximum total of $10.

B. A. Diploma Fee

A fee of $7.50 U.S. currency is required to cover the cost of the B. A. diploma from the Regents of the University of the State of New York.

Marriage and Fees

It is considered that a student who is married while his name is on the school rolls is more nearly able to pay the costs of his instruction, and hence shall pay double tuition. New students, if married, shall be liable to the same double charges unless excused by special action.

Special Students

An additional tuition fee of $20 or $40 per semester is charged any student requiring special tutoring or care, subject to the decision of the Dean.

A special student studying less than full time may pay tuition according to the number of credit-hours for which he is enrolled at the rate of $5 per credit-hour.

OTHER EXPENSES

Besides his college fees, the student will need to provide for a number of other expenses, the amount for which will vary with his personal habits. By practising economy it is possible for a student to maintain himself at the College for very little more than the cost of

his college fees, board, room-rent, laundry, clothing, and necessary travel to and from his home. Books will cost about $30, but more may be spent advantageously. The College provides a sufficient amount of good and nourishing food for all students, which is covered by the boarding fee, but some students buy "extras" which increase expenses. Clothing is an item that will vary greatly with individuals.

In addition to these items, allowance should be made for class dues, contributions, boat and ricksha fares, medicine, stationery and postage, and other miscellaneous incidentals. $25 would be a low allowance for these incidentals for the school year, $50 would be moderate, and $100 would be liberal. Students should provide their own furniture except those who are assigned to Java Hall.

No student should be deterred from entering or continuing his study at the College because of inability to meet the expenses. Special provision is made for scholarship aid and opportunities for self-help are also available.

SUMMARY OF EXPENSES

Freshman to Senior	*1st Sem.*		*2nd Sem.*		*Year*	
	Low	*High*	*Low*	*High*	*Low*	*High*
Fees	$128	$138	$102	$112	$230	$250
Laboratory	5	50			5	50
Other Expenses					50	200
Total					$285	$500

Sub-freshman	*Low*	*High*	*Low*	*High*	*Low*	*High*
Fees	$156	$171	$106	$121	$262	$292
Laboratory	15	15			15	15
Other Expenses					50	200
Total					$327	$507

Students who matriculate after the first semester has closed, pay fees at first semester rates, and in addition gown fee and deposit.

Financial Aid for Students

Employment Bureau. The College maintains a student employment bureau to assist students desiring to earn a portion of their expenses and to secure positions for graduates and other students. Others desiring a position in a school in this province would also do well to apply.

The average student who undertakes outside work is not able to carry a full schedule of studies and should allow a longer period in which to complete the college course. Advanced College students are often engaged as part time teachers in the Elementary School, which gives them the valuable experience of teaching under expert supervision and enables them to meet a part or all of their expenses.

An excellent opportunity is also offered in the College of Agriculture to students who have completed one or two years of the course and who are willing to spend the remainder in part time employment. This enables them to secure the much needed experience for success in this field.

Student Loan Fund. A small fund has been accumulated by gifts from students, teachers and friends from which loans are made to deserving students in need of help. From time to time a collection is taken at the Sunday Service and turned over to this fund. Students, teachers, churches, missions, missionaries and other friends are urged to contribute to it. The Bursar takes care of the fund.

Application for loans from this fund should be addressed to "The Manager of the Student Loan Fund." Late applicants may be disappointed. Not more than $50 is loaned to one student in one year. The Manager will consult with the Student Aid Committee and the Dean and give an order to the Bursar. A student who is granted such a loan must sign a note promising to repay as soon as he is able. Loans bear interest at 6 per cent. per annum from the time the student leaves the school and interest is compounded if not paid annually. The Bursar holds the notes, and interest and principal should be repaid to him.

College Loan Grants. Every student wishing to enter the College, or to remain in the institution but lacking the money to do so, should consult the Dean of his College. The College has a limited sum with which to help such students. Blank forms will be supplied and the applications carefully considered by the Student

Aid Committee. The amount of aid granted will be determined largely by the student's scholastic standing, but due weight will be given to his diligence, character and non-scholastic activities.

The College will give special consideration to the applications for aid of sons or daughters of a Christian pastor or mission worker. Their standing is, however, taken into account in determining the amount of all loan grants. In any case the Student Aid Committee cannot make grants to exceed the total loan funds available for the year.

A part of the sum available for these grants comes from endowed Scholarship Funds designated as the Yew Fun Tan (譚有芬), the Henry Martin, the C.T.B., the Knipp, the Cook, the Edmunds, and the Smith funds. Particular students are named each year as recipients of loans from these funds.

M. T. Tang Scholarship in Business Administration.

Through the generosity of Mr. M. T. Tang, (鄧文莊) of Hongkong, a former student, who has donated $1,500 H. K. currency for this purpose, special scholarship gifts are made to deserving students in business administration in grants of $50 each, not subject to the loan conditions which apply to College Loan grants. Awards may be made to more than one student in any given year, and the same student may be awarded more than one unit. Special application should be made to the Dean by any desiring aid from this fund. A competitive examination may be required before an award is made.

Class of 1923 Scholarship.

The students who received their one-year junior certificates in 1920 and passed on into the Sophomore class presented to the College a scholarship fund of $1,000 H. K. currency. The income will be used as scholarship gifts. As long as members of the class remain in the institution, they are to be given preference in the grants made possible by this scholarship.

Agricultural Scholarships

In addition to the general scholarships there are a number of scholarships open only to students in the College of Agriculture. Certain of these scholarships are not subject to the loan conditions which apply to ordinary College Loan Grants, but the recipients are expected to render any service to the College of Agriculture which will not interfere with their scholastic work. The College of Agriculture also provides a number of working scholarships for students who will engage in part-time work, in connection with agricultural developments, for which they receive payment scaled somewhat in advance of the non-student labor wage.

Chue Pik Tung Agricultural Scholarship.

Through the generosity of Mr. Chue Pik Tung (朱璧東) of Canton, a sum of $3,000 has been provided for special scholarship aid to students of agriculture.

Hongkong Agricultural Society Scholarships.

Two scholarships are also provided by the members of the Hongkong Agricultural Society (中華農學求新會) valued at $200 annually.

Opportunity for Establishing Special Student Aid Funds.

Those who are interested in assisting individual students are invited to give to the College memorial funds, the interest on which is to be used for loan grants or scholarship gifts. Annual gifts to the College of $50, $100, $150 or $200 will also make it possible to continue a liberal policy in student aid. This is especially important in the College of Agriculture because many of its students will be drawn from the rural class.

Rules Regulating College Loan Grants

Awards of loan grants are made for the full academic year, with the understanding that aid will not be continued in the second semester, unless the student has maintained his scholastic record and is regarded as worthy.

Every student receiving a loan grant is required to sign a note in recognition of the same, to be repaid as follows:

1. Any student finishing the College course shall be considered to have repaid two-thirds of his indebtedness at the time of graduation from the College.
2. All indebtedness not discharged in the above manner shall be repaid at the annual rate of one-tenth of the amount due when the student left school. The first payment will be due one year from date of leaving school. No money payment is necessary while the student is studying for more than half time in another school.
3. All overdue payments shall bear interest at 4 per cent. per annum.

Prizes

HONOR PRIZE, awarded annually to the student who ranks highest in scholarship, deportment and attendance.

COLES SCIENCE PRIZE, awarded annually to the Freshman who attains the highest general average of scholarship in science, on the basis of all science work done in his Sub-freshman and Freshman years.

COLES MATHEMATICS PRIZE, awarded annually to the student who has done the most meritorious work in mathematics during the year in Freshman or Sub-freshman courses.

ATHLETIC PRIZE, awarded annually to the student who has done the most during the year to promote athletics.

CHAMBERS CHINESE ESSAY PRIZE, the gift of Rev. R. E. Chambers, D.D., Canton, and awarded annually to the student submitting the best essay in Chinese.

AGRICULTURAL SCHOLARSHIP PRIZES, the gift of Prof. C. O. Levine, are awarded annually to students in the College of Agriculture as follows, the sums being paid in Canton currency:

1, $50 to the student ranking highest in AGRICULTURE.
2, $30 to the student ranking second in AGRICULTURE.
3, $30 to the student ranking highest in LIVE STOCK JUDGING.
4, $20 to the student ranking second in LIVE STOCK JUDGING.

Certificates

HONOR CERTIFICATES

A student who maintains an exceptionally high standing may be declared an honor student and receive an Honor Certificate at the commencement exercises of the year. The number of such honor students in either College may not exceed five per centum of the total number of students enrolled in that College during the year. The awards are made chiefly on the basis of scholarship, but due weight is given to diligence, non-scholastic activities and personal character.

CERTIFICATES FOR WORK COMPLETED

Certificates are offered in Education to those students who have completed certain courses and are qualified to hold positions as teachers of general or special subjects in Middle Schools, or as Principals or Supervisors of Lower Middle Schools. Details will be found in the section describing the courses in Education.

Students who wish to pursue professional study elsewhere will be given complete and detailed certificates for the work done at this College through the last semester they have completed, and every attempt will be made to secure for them proper standing at the school to which they go. Ordinarily they may transfer to corresponding class in American universities in similar courses without loss of standing.

Transcripts of academic records, after the first, will be charged for at the rate of $2.00 H.K. currency each.

JUNIOR CERTIFICATES

A two-year Junior Certificate is awarded a student who has completed 65 or more collegiate credits in any one of the groups of courses and who has no entrance conditions. In the case of the Pre-medical and Pre-theological groups, the student must have completed the full course of study as outlined in order to receive a junior certificate for the groups.

Graduation and Diplomas

DEGREE OF BACHELOR OF ARTS
DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE.

CREDITS. In order to qualify as a candidate for graduation from the College of Arts and Sciences and for the Degree of Bachelor of Arts, a student must have completed 140 credits* of collegiate work, including the prescribed amount of work in each course as required in the group in which he seeks his degree, and must also have removed all conditions.

In order to qualify as a candidate for graduation from the College of Agriculture and for the Degree of Bachelor of Science in Agriculture, a student must have completed 140 credits* of collegiate

* One credit is represented by one hour recitation or two hours laboratory work per week for one semester.

work, including the prescribed amount of work in each subject and must also have removed all conditions. He must also present a thesis which has been approved by the Dean.

RESIDENCE. Candidates for either degree must be students in good standing and must have been in residence for at least two semesters immediately preceding candidacy. While it is recognized that students may in some cases be able to acquire the requisite 140 credits in less than eight semesters of college residence either here or elsewhere, the degree will not be granted for such shorter period of college residence and work excepting to candidates of unusual ability and standing, and on specific recommendation of the faculty. The regular college course is four years.

RECOMMENDATION, APPROVAL AND FEE. Candidates for either degree must be recommended by the respective faculty and approved by the Representative of the Regents of the University of the State of New York. The diploma is given by the Regents of the University of the State of New York, upon recommendation from the Trustees of the Canton Christian College. A diploma fee of $7.50 U. S. currency is charged.

TIME OF AWARD. The degree is conferred upon a successful candidate at the commencement next following the completion of his course of study and other requirements. The degree may be given in absentia only in cases of necessity and by special act.

Graduate Study

At present, the College offers but limited facilities for graduate study. The regulations covering this work may be learned on application to the Dean.

Graduate Standing Abroad

Graduates of the Canton Christian College, upon presentation of a B. A. diploma and transcript of academic record, will be admitted, on recommendation of the Dean, without examination into the graduate schools of Columbia University, Yale University, University of California, University of Wisconsin, Johns Hopkins University, Cornell University, University of Chicago, University of Illinois, University of Michigan, University of Minnesota, University of Washington, Stanford University, University of Toronto, and others, on substantially the same basis as graduates of other accredited colleges and universities in America.

By action of the Court of the University of Hongkong, the work and examinations of the pre-medical course of Canton Christian College are recognized by the University for purposes of admission to the Medical Faculty. This signifies that students who have completed the pre-medical course at Canton Christian College are exempted from the matriculation and first medical examinations of the University of Hongkong. Eight annual scholarships, valued at $300 (Hongkong currency) each are offered students who have completed their pre-medical course at Canton Christian College.

General Regulations

Note: For additional regulations and details, see the Bulletin of Regulations and Information.

EVERY STUDENT under these faculties must engage regularly in some *athletic work* or drill. Sub-freshmen may be required to serve as officers in the middle school battalion.

All students are required to attend *daily chapel* and *Sunday morning exercises*.

Students are expected to wear *academic dress* at the first religious service of the College on the second Sunday of each month, and at other times on request.

Permission for *absence* from classes must be obtained from both the instructor of the class and the attendance officer before the absence.

Excepting absences caused by illness or late enrollment, excused absences in any course in one semester are limited to *one more than* the credit-hours in that course. Loss of credit and standing will follow any exceeding of this limit.

Seniors are allowed to leave the campus without permits if such absence does not involve absence from classes or other required College activities. If absence from class is involved, permission must be obtained from the advisor. Other students are required to secure permits for all absences from the campus or from classes; Juniors and Sophomores from their advisors, Freshmen, Sub-freshmen and unclassified students from the attendance officer.

Students leaving College or absenting themselves from classes without due permission may forfeit all rights and privileges as students

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and can not ordinarily be received again except by special action of the Faculty.

Grades are made up at the end of each semester by a combination of examination grades, daily grades, and grades for other work. Instructors may be asked also in the middle of the term for an estimate of the student's standing. A grade of 70 or higher is a pass, one of 60 to 69 is a condition, and one below 60 is a failure.

Unless a student reserves a place in a dormitory the College does not guarantee to keep it for him, but may assign it to another student. A place is considered reserved if the student's guarantee fee is on deposit at the Bursar's Office. (New students should deposit their guarantee fees in advance). Old students must make application for the removal of their guarantee fees at least ten days before the opening of school if they are not returning or the fee will be forfeited. In any case reservations are held for not longer than the third day after the opening of the session.

The Faculty endeavors to arrange frequent *lectures* by specialists upon subjects of general interest to the Faculty and students. Lectures and entertainments on Saturday evenings are provided. These are usually also open to Middle School students.

Every student is on his *honor* to do his own work on examinations and other work for which credit is sought. Obtaining or giving of aid in such work is considered dishonest.

Students are permitted to study in the *dormitory* and their rooms are to be open for inspection at any time, and should be kept neat, orderly and quiet. No dining is allowed in the dormitory rooms, except in dining rooms, nor may any food be stored in the dormitory.

Occupants of rooms in Java Hall may secure keys for their rooms on application to the Dean of the College of Arts and Sciences. A deposit of $1 H.K. currency is required for each key issued, which deposit is refunded when the key is returned.

The management of the *Boarding Department* is in the hands of a committee of the Student Union elected each semester, subject to the final authority of the Council committee consisting of the Bursar and the Deans.

Organizations

The formation of any student organization on the College grounds must be approved by the executive of the school concerned.

Such approval must also be obtained for its constitution, regulations, fees, and activities; likewise for any subsequent changes in the same. Every organization must provide for a faculty advisor and have all publications approved by the Dean. Every organization must report promptly to the Dean the officers selected from time to time. A list of the college organizations is given elsewhere in this catalogue.

No secret societies may be formed, except under special regulations.

Finances

The annual or semester budget of each general student organization (that is, one composed of a majority of the students in any school), and of each student organization with an annual budget of over $200 H.K. currency must be approved beforehand by the executive of the school concerned.

All accounts of such organizations, and of teachers' organizations, must be audited, as soon as closed for the year or semester, by the College Auditor and a copy filed with the Bursar. Any unbusiness-like use of funds must be reported by the Auditor to the President and any serious departure from the budget to the executive who approved it.

Smaller student organizations or classes must keep their expenditures within their regular fees. For breaches of these rules, the president and treasurer of the organization will be held personally responsible.

The raising of money or soliciting of subscriptions by any individual or organization on the College grounds without the consent of the President is strictly prohibited.

Meetings

Meetings of the student body or general student organizations may be held after obtaining permission of the executive of the school concerned, and after posting a notice of the meeting in both English and Chinese on the bulletin board of the school concerned, or having it announced at the proper chapel service. Permission for regularly scheduled meetings may be obtained in advance for a whole year, until changes are made.

Whenever the Auditorium in Swasey Hall is to be used for any purpose it is necessary to reserve the use of it by application to the President.

The word "meeting" in all cases includes parades and celebrations.

Regulations for College Women

1. College women, except daughters of the staff, should all live in dormitories. Special permission to live elsewhere may be given to near relatives of the staff, but for this the consent of the President is necessary.
2. Young women may go to Canton only with a chaperon, except under special permission based upon the written request of parent or guardian.
3. Young women must be back on the campus before 6:30 p.m. between November and February inclusive; all other months before 7:30 p.m.
4. Young women may not under any circumstances enter the men's dormitories or the space within the dormitory quadrangle.
5. Young women may not take walks after dark.
6. Young women may receive callers in the reception room of their dormitory until 7:30 p.m. any evening, and on Sundays and Mondays until 9:30 p.m.
7. All permits for absence from classes or other required College activities are issued by the attendance officer for Freshmen and Sub-freshmen, by the advisors for all other students, and are not valid until endorsed by the Dean of Women.
8. Permits for absences not involving classes are given by the Dean of Women.
9. For all other academic matters, women students will consult the class advisor.
10. College women are responsible directly to the Dean of Women for their personal conduct and relationship to the College.

General Statement of Courses

Seven groups of subjects are offered in the College of Arts and Sciences: General Arts, Natural Science, Business Administration, Chemistry, Education, Pre-medical and Pre-theological. All of these courses presuppose the Canton Christian College Middle School course or its equivalent.

General Arts Group (*Four Years*)

Those students who desire a liberal education preparatory to entering such professions as translating, interpreting, journalism, law, literary work, lecturing, social and religious service, and the like, will find it best to follow, in the main, the General Arts course.

Natural Science Group (*Four Years*)

Those students who look forward to a scientific and technical career, such as biological or physical research, science teaching or engineering will get their best preparation by following the Natural Science group.

Business Administration Group (*Four Years*)

Those seeking to prepare for general business, accounting, banking, foreign commerce, statistical research, government service, etc., will get the best preparation by following the Business Administration group of studies.

Chemistry Group (*Four Years*)

The constantly increasing service of Chemistry in industry and civilization, as well as its specific application to many of the new problems of China's productivity and economic welfare, turn an increasing number of students to its study and practice.

Education Groups (*Two Years or Four Years*)

The exceptional position and problems of Education in China has led to the formation of the Department of Education which offers courses designed to meet three needs: the training of teachers and school officers, particularly for Middle Schools, the provision of

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instruction in education for those not themselves expecting to engage in teaching, and the solution of some of the many problems incident to the development of a new system of education in China.

Pre-medical Group (*Two Years*)

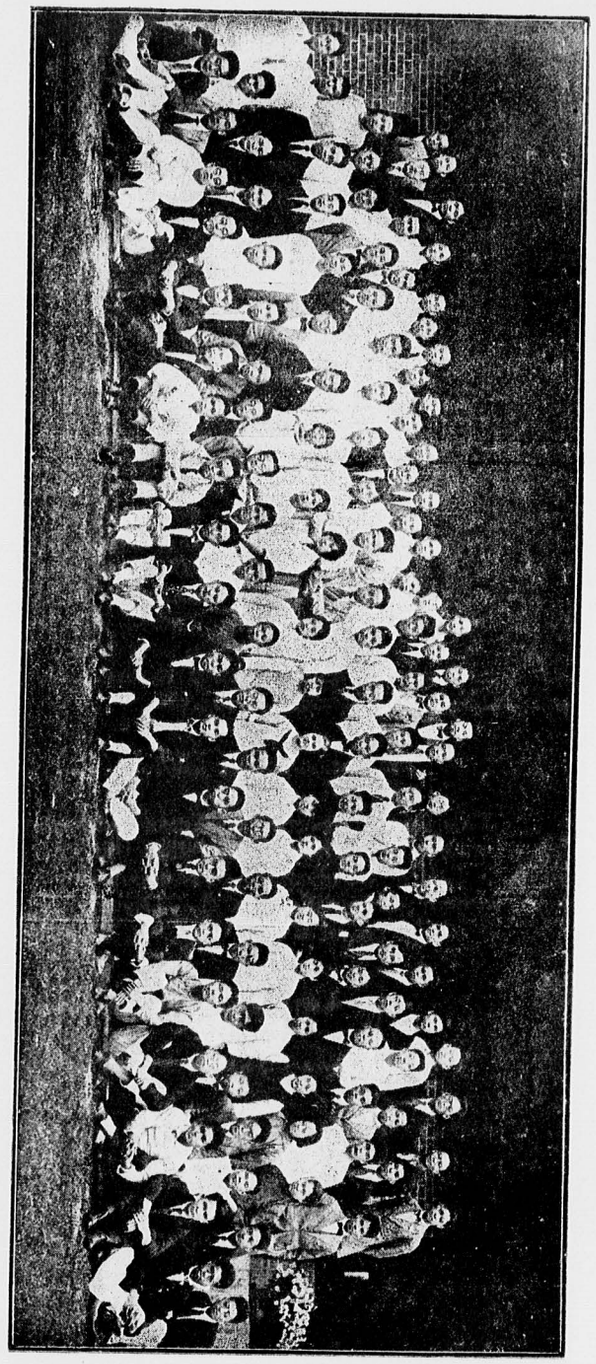
The Pre-medical group of studies aims to prepare students for entrance to the best medical colleges of China and abroad, and seeks to maintain a standard sufficient to enable those who have completed the sophomore year in this group with distinction to enter directly such institutions as the Peking Union Medical College, the Hunan-Yale College of Medicine, the Pennsylvania Medical School (Shanghai), and the Medical Faculty of the University of Hongkong. Students completing this course will be awarded a Junior Certificate in Pre-medical Subjects. It is recommended, however, that pre-medical students proceed to the bachelor's degree before undertaking a regular medical course.

Pre-theological Group (*Two Years*)

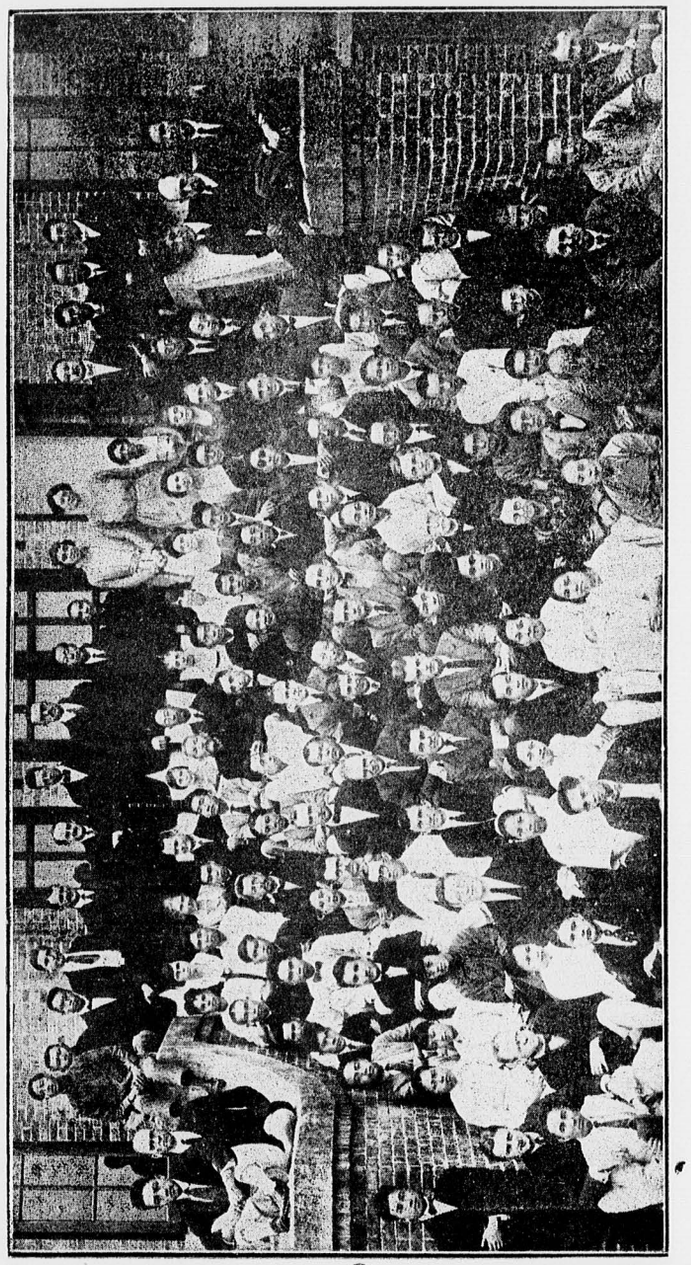
This course, covering freshman and sophomore years, is outlined elsewhere. Students completing this course will be given a two-year Junior Certificate in Pre-theological Subjects, admitting them without examination to the Divinity School of the Union Theological College of Canton.

Affiliation with the Theological Seminaries in Canton.

Arrangements have been made with the Canton Union Theological College and with the Graves Theological Seminary of the Southern Baptist Convention Mission, Canton, whereby students of the Canton Christian College may elect certain courses at either seminary and secure credit both towards a degree from the College and a diploma from the seminary. A reciprocal privilege is enjoyed by students of the two seminaries. Full details as to this matter may be obtained on application to the Dean of the College of Arts and Sciences, or to the president of either seminary.



STUDENT BODY
COLLEGE OF ARTS AND SCIENCES AND COLLEGE OF AGRICULTURE 1921-22



ENTIRE STAFF OF CANTON CHRISTIAN COLLEGE, 1921-22

Required and Elective Courses

IN ALL GROUPS, certain courses are required of all students. The required courses are found chiefly in the lower classes of the College, but even here a wide range of electives is offered. In general, a student may take any course which is open to members of his class in any group, provided he shall be taking the required work in his own course and shall have had the prerequisite work in the subject.

In the following tables the studies are indicated which are open to a student for each semester in the College. The student should first enroll in the prescribed courses, if possible. No student can become a candidate for a degree unless he shall have completed his required courses or their equivalent.

Courses open to Sub-freshmen are designated by capital letters, e.g., English A, and those open to College students are designated by numbers, e.g., Religion 1. Courses numbered from 1 to 10 are open to Freshmen and above, those numbered 11 to 30 are open to Sophomores and above and those numbered 31 and above are open only to Juniors and Seniors. Upper classmen may elect courses open to lower classes in the College.

Students in the College of Agriculture may elect, with the approval of their advisor, courses in the College of Arts and Sciences for which they have had the prerequisites, subject to limitations of the roster, and *vice versa*.

Courses designated by the small letters *a-b* following the course number, e.g., English 1a-b, are year courses, 1a being given the first semester and 1b the second semester and the entire course must be completed before credit can be counted toward a certificate or degree.

Prescribed Subjects for Degree

In order to be eligible for the B. A. degree, the student must present *at least* the following credits in prescribed subjects:

General Arts Group

English	16	credits
History	12	,,
Economics	8	,,
Religion	8	,,
Chinese	16	,,
Science, as specified	9	,,
Psychology	3	,,
Philosophy	3	,,
Government, Sociology, History or Economics	6	,,
Total prescribed	81	,,

Natural Science Group

English	8	credits
Science*	54	,,
Mathematics	8	,,
Religion	8	,,
Chinese	8	,,
Total prescribed	86	,,

Business Administration Group

Chinese	12	credits
English	14	,,
History 1a-b	6	,,
Science, as specified	9	,,
Religion	8	,,
Psychology 31	3	,,
Government 11	3	,,
Business Administration and Economics	60	,,
Total prescribed	115	,,

Chemistry Group

English	8	credits
Chemistry	65	,,
Other Science as specified	15	,,
Mathematics	24	,,
Economics	8	,,
Religion	8	,,
Chinese	8	,,
French or German	10	,,
Total prescribed	146	,,

Education Group

Education courses	22 to 41	credits
English	16	,,
Social Science or Philosophy	14	,,
Religion	8	,,
Chinese	16	,,
Natural Science	9	,,
Psychology	6	,,
Total prescribed	91 to 110	,,

*At least 11 credits must be presented in Biology, 12 credits in Chemistry, and 12 credits in Physics.

Sub-freshman Courses

College of Arts and Sciences

PREREQUISITE TO General Arts, Education Pre-theological and Business Administration Groups			PREREQUISITE TO Natural Science and Chemistry Groups		
	SEMESTER			SEMESTER	
Subject	One	Two	Subject	One	Two
English A, B	5	5	English A, B	5	5
Physics A, B	*6	*6	Physics A, B	*6	*6
History A, B	3	3	History A, B	3	3
Religion A, B	1	1	Religion A, B	1	1
Chinese A, B	3	3	Chinese A, B	3	3
Elective, not less than	4	4	Mathematics A, B	4	4
to be selected from			Elective		
†English C, D			to be selected from		
Mathematics A, B	4, 4		†English C, D		
Sociology A, B	3, 3		Sociology A, B	3, 3	
Chinese C, D	2, 2		Chinese C, D	2, 2	
Total not less than	22	22	Total not less than	22	22

College of Agriculture

PREREQUISITE TO COURSE FOR A DEGREE

FIRST SEMESTER		SECOND SEMESTER	
Subject	Hrs.	Subject	Hrs.
English A	5	English B	5
Physics A	*6	Physics B	*6
Mathematics A	4	Mathematics B	4
Religion A	1	Religion B	1
Chinese A	3	Chinese B	3
Elective not less than	3	Elective not less than	3
to be selected from		to be selected from	
†English C		†English D	
Sociology A	3	Sociology B	3
Chinese C	2	Chinese D	2
History A	3	History B	3
Total not less than	22	Total not less than	22

*4 hours class-room, 4 hours laboratory or field work, 6 credit-hours.

†English C and D may be required of any student upon recommendation of the instructor in English A and B and is open to no others.

PRE-MEDICAL GROUP: See page 53.

SUMMARY OF COLLEGE COURSES

GENERAL ARTS GROUP

(Minimum 16, Maximum 23, credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	2	Chinese	2
	English 1a	4	English 1b	4
	History 1a	3	History 1b	3
	Economics 1a	4	Economics 1b	4
	Education 1a	4	Religion 1	2
	or Biology 1 3		Education 1b	4
	and Elective 2		or Electives	
Sophomore	Chinese	2	Chinese	2
	English	3	English	3
	History	3	History	3
	Chemistry 2a	3	Chemistry 2b	3
	Religion		Religion	
	Electives		Electives	
Junior	Chinese	2	Chinese	2
	English		English	
	Religion		Religion	
	Electives		Electives	
Senior	Chinese	2	Chinese	2
	Psychology 31	3	Philosophy	3
	English		English	
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†The maximum depends on standing. See rule on page 31

SUMMARY OF COLLEGE COURSES

NATURAL SCIENCE GROUP

(Minimum 16, †Maximum 23 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	‡Chinese	2	‡Chinese	2
	Biology 2	4	Religion 1a	2
	Chemistry 1a	6	Biology 3	4
	English 1a	4	Chemistry 1b	6
	Elective, not more than	2	English 1b	4
			Elective, not more than	5
Sophomore	‡Chinese	2	‡Chinese	2
	Physics, Chemistry or Biology		Physics, Chemistry or Biology	
	Religion		Religion	
	Electives		Electives	
Junior	‡Chinese	2	‡Chinese	2
	Religion		Religion	
	Science		Science	
	Electives		Electives	
Senior	‡Chinese	2	‡Chinese	2
	Science		Science	
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

‡At least 8 credits in Chinese must be completed by candidates for a degree.

†The Maximum depends on standing. See rule on page 31.

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SUMMARY OF COLLEGE COURSES

BUSINESS ADMINISTRATION GROUP

(Minimum 16, †Maximum 23 credit hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	¿Chinese	2	¿Chinese	2
	Business Admin. 1a	4	Business Admin. 1b	4
	Business Admin. 5a	4	Business Admin. 5b	4
	English 1a	4	English 1b	4
	Biology 1	3	Religion 1	2
			Electives	
Sophomore	¿Chinese	2	¿Chinese	2
	History 1a	3	History 1b	3
	Business Admin. 12	3	Business Admin. 14	3
	Business Admin. 15a	4	Business Admin. 15b	4
	Chemistry 2a	3	Chemistry 2b	3
	Electives		Electives	
Junior	¿Chinese	2	¿Chinese	2
	Religion	2	Religion	2
	Psychology	3	Government	3
	‡Electives		‡Electives	
Senior	‡Electives		‡Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

‡Chiefly from courses in History, Economics, Government, and Business Administration.

¿At least 12 credits in Chinese must be completed by candidates for a degree.

†The Maximum depends on standing. See rule on page 31.

SUMMARY OF COLLEGE COURSES

CHEMISTRY GROUP

(Students in this group must elect the courses specified below, but may elect additional courses under the usual conditions.)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	2	Chinese	2
	Mathematics 1	4	Mathematics 2	4
	English 1a	4	English 1b	4
	Biology 1	3	Religion 1	2
	Chemistry 1a	6	Chemistry 1b	6
	Total	19	Total	18
Sophomore	Mathematics 11	4	Mathematics 12	4
	German 1a or French 1a	5	German 1b or French 1b	5
	Physics 11a	6	Physics 11b	6
	Chemistry 11a	5	Chemistry11 b	4
	Total	20	Total	19
Junior	Chinese	2	Chinese	2
	Mathematics 31	4	Mathematics 32	4
	Religion 3a	2	Religion 3b	2
	Chemistry 31a	4	Chemistry 31b	3
	Chemistry 33a	7	Chemistry 33b	8
	Total	19	Total	20
Senior	Economics 1a	4	Economics 1b	4
	Religion	2	Chemistry 41b	6
	Chemistry 41a	7	Chemistry 42	3
	Elective	(13)	Electives	(13)
	Chinese	2	Chinese	2
	Chemistry 38a	3	Chemistry 38b	4
	Mineralogy	3	Mineralogy	3
	Chemistry 35	4	Chemistry 34	4
	Total not over	19	Chemistry 47	4
			Total not over	19

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

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SUMMARY OF COLLEGE COURSES

EDUCATION GROUP

(Minimum 16, †Maximum 23 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Education 1	4	Education 2	5
	Chinese	2	Chinese	2
	History 1a 3 or Economics 1a	4	History 1b 3 or Economics 1b	4
	English 1a	4	English 1b	4
	Elective, not more than	4	Religion 1	2
			Electives	
Sophomore	Education 11 4 or Education 13	5	Education 12, 14, or Special	5
	Chinese	2	Chinese	2
	English	3	English	3
	Religion		Religion	
	Electives		Electives	
Junior	Education 11, 13, or Special		Education 14, 31, or Special	5
	Chinese	2	Chinese	2
	Psychology	3	Psychology	3
	Practice Teaching		Practice Teaching	
	Religion		Religion	
	Electives		Electives	
Senior	Education 31, 32, or Special		Education 31, 32, or Special	
	Chinese		Chinese	
	Practice Teaching		Practice Teaching	
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†The Maximum depends on standing. See rule on page 31.

SUMMARY OF COLLEGE COURSES

JUNIOR CERTIFICATE IN EDUCATION

(Minimum 16, †Maximum 23 credit-hours)

Year	Semester I		Semester II	
	Courses	*Credit	Courses	*Credit
Freshman	Education 1	4	Education 2	5
	Chinese	2	Chinese	2
	English 1a	4	English 1b	4
	Electives		Religion 1	2
			Electives	
Sophomore	Education 11	4	Education 12	5
	Chinese	2	Chinese	2
	Practice Teaching	2	Practice Teaching	2
	English, Chinese, Mathematics, Content Subject, or Education Special.....	7 to 15	English, Chinese, Mathematics, Content Subject, or Education Special.....	7 to 14

NOTE: Students having taken this two-year course and later deciding to continue study may proceed to the Bachelor's degree by observing the total requirements of the Education Group.

*One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†The Maximum depends on standing. See rule on page 31.

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SUMMARY OF COLLEGE COURSES

PRE-MEDICAL GROUP

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Sub-Freshman	English A	5	English B	5
	Physics A	6	Physics B	6
	Religion A	1	Religion B	1
	‡Chinese A	3	‡Chinese B	3
	Mathematics A	4	Mathematics B	4
	History A	3	History B	3
	Total	22	Total	22
Freshman	Chemistry 1a	6	Chemistry 1b	6
	Biology 2	4	Biology 3	4
	Chinese	2	Chinese	2
	English 1a	4	English 1b	4
	German 1	5	German 2	5
			Religion 1	2
	Total	21	Total	23
Sophomore	Physics 11a	6	Physics 11b	6
	Chemistry 12	6	Chemistry 14	6
	Chinese	2	Chinese	2
	Biology 15a	6	Biology 15b	4
			Biology 11	3
	Total	20	Total	21

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

‡Chinese C and Chinese D may be elected in addition to these specified courses.

SUMMARY OF COLLEGE COURSES

PRE-THEOLOGICAL GROUP

(Minimum 18, †Maximum 23 credit-hours)

Year	Semester I		Semester II	
	Subjects	*Credit	Subjects	*Credit
Freshman	Chinese	4	Chinese	4 to 6
	English 1a	4	English 1b	4
	Biology 1	3	Biology 11	3
	Philosophy 14 (Logic)	3	Social Science	3
	Greek 1a	2	Greek 1b	2
	Religion 5a	2	Religion 5b	2
			Electives	
Sophomore	Chinese	4 to 6	Chinese	4 to 6
	Psychology 31	3	Philosophy 13 (Ethics)	3
	Philosophy	3	Sociology	3
	Greek 11a	3	Greek 11b	3
	Religion 3a	2	Religion 3b	2
	History	3	History	3
	Electives		Electives	

NOTES: *One credit or credit-hour represents one hour of recitation or lecture or two hours of laboratory or field work per week for one semester.

†The Maximum depends on standing. See rule on page 31.

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COLLEGE OF ARTS AND SCIENCES
COURSES OF STUDY IN DETAIL
ARCHAEOLOGY

31a-b. CHINESE ARCHÆOLOGY (古物學). The purpose of this course is the study and the preservation of the historical objects, places and monuments of China, including ancient ceramics, paintings, bronzes, coins, gems and all branches of paleography and antiquity. This course, it is hoped, will serve as a step toward the formation of archæological museums and societies. Lectures, discussions, reports, travelling, and making of collections. *Not offered in 1922-23.*

2 hours; two semesters.

BIOLOGY

PROFESSOR C. W. HOWARD; MR. K. P. BUSWELL, MR. A. S. CAMPBELL.

THE BIOLOGICAL DEPARTMENT is well equipped with microscopes and other instruments necessary for work in all lines of botany and zoology. A good herbarium and working collections of the local fauna are also accessible to the students.

1. GENERAL BIOLOGY, The fundamental principles of biology. This course is intended for those who wish to have a general knowledge of the subject but will not pursue it further. Prescribed for all students in the General Arts, Chemistry, Social Science and Pre-theological groups.

CONN: Biology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

2. BOTANY. Structure of plants and general function of plant organs. Prescribed for students in Natural Science and Pre-medical groups, and for all students in the College of Agriculture.

GANONG: Text-book of Botany.

Lectures two hours, laboratory 4 hours (4 credits); one semester.

3. ZOOLOGY. Introductory study of the various forms of animal life. Prescribed for students in Natural Science and Pre-medical groups, and for all students in the College of Agriculture.

GALLOWAY: Zoology.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

11. HEREDITY AND EVOLUTION. The theories of evolution and the laws of heredity with their practical application. Prerequisite: Biology 1, or 2 and 3. *Not offered in 1922-23.*

3 hours; one semester.

12. AGRICULTURAL BACTERIOLOGY. See College of Agriculture section of this Catalogue for details.

Lectures 1 hour, laboratory 4 hours, (5 credits); one semester.

14. PLANT PHYSIOLOGY. See College of Agriculture section of this Catalogue for details.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

15a-b. COMPARATIVE MORPHOLOGY AND PHYSIOLOGY. A comparative study of the anatomy and physiology of the important groups of invertebrate and vertebrate animals. Designed especially for pre-medical students but open to others. Prerequisites: Biology 2 and 3.

First semester, lectures 3 hours, laboratory 6 hours; (6 credits).
Second semester, lectures 2 hours, laboratory 4 hours; (4 credits).

18. GENERAL EMBRYOLOGY. A study of the fundamental principles of vertebrate embryology. The developement of the pig and the chick is studied. Attention is also given to technique. Designed for pre-medical students, but open to others. Prerequisites: Biology 2 and 3.

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

20. PHYSIOLOGY. Physiology of the human body. Prerequisites: Biology 1, 2 and 3.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

21. HYGIENE. Personal, domestic and civil hygiene. Prerequisites: Biology 2 and 3.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

25 a-b. SCIENTIFIC LATIN AND GREEK. A course for those who intend to specialize in science, giving the principal roots used in scientific terms.

3 hours, two semesters.

31 a-b. ECONOMIC ZOOLOGY. See College of Agriculture section of this Catalogue for details.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

33. PLANT PATHOLOGY. See College of Agriculture section of this Catalogue for details.

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

37 a-b. PROBLEMS IN BIOLOGY. Individual research work for advanced students under the supervision of an instructor. Prerequisites: Biology 2, 3 and 31.

3 to 5 credits; two semesters.

BUSINESS ADMINISTRATION

PROFESSOR M. M. SKINNER; PROFESSOR K. DUNCAN; MR. W. R. AUGUR; MR. G. E. LYON; MR. KAM NAAI KWONG.

THE COURSES in economics and business administration have been combined under the department of business administration. The modern world of China is demanding men trained in the theory and practice of business, as it is carried on not only in China but also in the other countries of the world. A knowledge of accounting, statistics, labor history, insurance, business law and organization, salesmanship, advertising, commercial geography, transportation, banking and exchange, and the fundamental economic principles underlying the complex relations of the business world in general is necessary for a proper direction and intelligent control of the modern industrial system now developing in China.

The college and private libraries on the campus furnish a large amount of well-selected material for economic study. Files and current numbers of *American Economic Review, Economic Journal, Annals of the American Academy, Journal of Political Economy, Chinese Social and Political Science Review, Trans-Pacific, Quarterly Publications of the American Statistical Association* and other economic and financial periodicals are available. In the case of the publications of the American Economic Association the files are complete. The near-by cities of Canton and Hongkong afford unusual opportunities for studies of modern business and economic problems.

Ia-b. GENERAL ECONOMICS. A preliminary survey of the economic world of to-day, its outstanding characteristics and underlying principles. In the second semester a brief study is made of the single tax system, socialism in its economic aspect, money and banking, industrial and business organization, insurance and public finance. Lectures in English; quiz work conducted in Chinese. This course is prerequisite for all the more advanced courses in economics and business administration.

CARVER: Principles of Political Economy.
DUNCAN: Exercises in Elementary Economics.

4 hours; two semesters.

2. ELEMENTARY BUSINESS COURSE. This course gives a general knowledge of business and commercial principles and practices. An introductory study of the money and weights and measures of China, instruments of commercial credit, general office forms and practice, shipping, banking, insurance, etc..

CHOW SHI-SAN: Handbook of Business Training.
DE HAAS: Business Organization and Administration.

2 hours a day (3 credits); Summer Session.

3. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. A survey of the industries and products of the various countries of the world with special reference to China. Introductory study of shipping, world commerce, and ports of the world.

SMITH: Commerce and Industry.

3 hours; one semester.

4. HISTORY OF COMMERCE. The origin and growth of the world's commerce. The industry and trade of the great nations of ancient and modern times; Phoenicians, Greeks, Romans, Italians, Spaniards, Portuguese, Dutch, French, British, Americans, with particular reference to their trade-relations with China and the Orient in general. The commercial transformation of the Far-East. *Not offered in 1922-23.*

HERRICK: History of Commerce.

3 hours; one semester.

5a-b. ELEMENTARY ACCOUNTING. Bookkeeping and the fundamental principles of accounting. Single-entry and double-entry sets of accounts; principles of debit and credit; nature of accounts;

balance sheets; profit and loss statements; and a detailed study of business papers.

1st Semester: KLEIN: Bookkeeping and Accounting.
KLEIN: Laboratory Practice Set.
2nd Semester: ROWES: Bookkeeping and Accounting.
ROWES: Merchants Corporation Set.
Lectures 2 hours, laboratory 4 hours (4 credits); two semesters.

11. BUSINESS CORRESPONDENCE. Commercial correspondence and trade cultivation. A consideration of the English of advertising, preparation of form letters, booklets, and periodical advertisements, filing, office systems.

DAVIS AND LINGHAM: Business English and Correspondence.
3 hours; one semester.

12. MONEY AND BANKING. The nature and functions of money, history of money, monetary standards, principles of coinage, government paper issue and legal tender, principles of banking and the operation of a modern bank, banking in China and monetary reform, domestic and foreign exchange.

HOLDSWORTH: Money and Banking.
3 hours; one semester.

13. BUSINESS ORGANIZATION AND OPERATION. A study of modern enterprise as organized in the single proprietorship, the partnership, the joint stock, and the corporate forms; combinations and their relation to the problem of the trust and monopoly. *Not offered in 1922-23.*

HANEY: Business Organization and Combination.
3 hours; one semester.

14. ELEMENTARY STATISTICS. Principles of statistical method; the collection, presentation, and interpretation of statistical data; tabular and diagrammatic methods of presenting economic and social statistics.

KING: The Elements of Statistical Method.
KING: Exercises in Statistical Method.
3 hours; one semester.

15a-b. INTERMEDIATE ACCOUNTING. Principles of accounting treated in more detail than in Business Administration 5. Principles of corporation accounts; opening of corporation books; subscribers' accounts; dividend accounts; corporation statements; consignment

accounts; accounting problems of partnerships and corporations. *Not offered in 1922-23.*

Lectures, 2 hours; laboratory 4 hours (4 credits) two semesters.

16. ECONOMICS OF TRANSPORTATION. Railroad and water transportation; relation of transportation to industry and society; organization; traffic associations; traffic agreement; routes; ports and terminals; rates and their regulation. A special study is made of the railroads of China, their routes, service rendered, and management, and the needs of China for the expansion of her transportation facilities.

JOHNSON AND VAN METRE: Principles of Railroad Transportation.
HUEBNER: Ocean Steamship Traffic Management.
3 hours; one semester.

19. MARKETING AND ADVERTISING. Theory and principles of marketing and merchandising; modern methods and problems in the marketing of raw materials and manufactured products; trade channels and function of various middlemen; advertising and its place in modern marketing practice; investigation of marketing methods in China.

CHERINGTON: Elements of Marketing.
MYSTROM: Economics of Retailing.
CALKINS AND HOLDEN: Modern Advertising.
3 hours; one semester.

22. INSURANCE. Principles and methods of insurance, its history, problems, and laws. Life insurance with an elementary consideration of the fundamental mathematics of actuarial science; fire insurance as an example of property insurance; marine insurance; social insurance. Insurance carriers, state insurance; insurance statistics; insurance in China. *Not offered in 1922-23.*

HUEBNER: Life Insurance.
HUEBNER: Property Insurance.
WINTER: Marine Insurance.
3 hours; one semester.

26. FOREIGN BUSINESS LAW. The fundamental principles of American and English business law; comparison is made with the commercial law of China; the more general and practical principles

are developed from problems and selected cases, particularly as related to the law of contracts, property, negotiable papers, insurance, partnership, and corporations.

HUFFCUT-BOGERT. Elements of Business Law.

3 hours; one semester.

28. CHINESE BUSINESS LAW AND DOCUMENTS. A discussion of business law as it is administered in different parts of China. A study is made of public and commercial documents and frequent practice given in drawing them up.

3 hours; one semester.

31. CONSERVATION OF ECONOMIC RESOURCES. A survey of the natural resources and products of China of economic significance and an examination of the policies of conservation and control. General principles of conservation and their practice in other countries; the economic aspects of scientific agriculture, food supply, forestry, flood control, use of mineral wealth, and the conservation of human resources. *Not offered in 1922-23.*

ELY, HESS, LEITH AND CARVER: Foundations of National Prosperity.

3 hours; one semester.

32. PUBLIC FINANCE AND TAXATION. Study of the theory and history of governmental revenues and expenditures; taxation with special reference to the general property, inheritance, and income taxes; customs and transit duties; local and general taxation in China; financial administration; problems of extraordinary finance.

HUNTER: Outlines of Public Finance.

3 hours; one semester.

35. INTERNATIONAL TRADE AND THE TARIFF. Theory and practice of international trade; trade of China with the countries of the world; the financing of foreign shipments; foreign exchange; marine insurance; commercial treaties and tariff policies; a study of the actual documents used in foreign business; trade reports and statistics of China.

HOUGH: Practical Exporting.

3 hours; one semester.

38. ADVANCED ECONOMICS. A more detailed and advanced study of economic theory. *Not offered in 1922-23.*

MARSHALL: Principles of Economics.

3 hours; one semester.

39. HISTORY OF ECONOMIC THOUGHT. History of economic ideas and philosophy from ancient times to the present. The effect of changing social and industrial systems on economic ideas; the economic interpretation of history; the present economic order.

HANEY: History of Economic Thought.

3 hours; one semester.

42. SOCIALISM. The development of Socialistic thought and a critical discussion of the chief contemporary systems of socialism. Special attention given to Marxian philosophy, to modern evolutionary socialism, and to present-day radical movements. Socialism in China. *Not offered in 1922-23.*

KIRKUP: History of Socialism.

SPARGO: Applied Socialism.

3 hours; one semester.

43. LABOR PROBLEMS AND LEGISLATION. Origin and development of the labor movement; trade-unions; recent labor movements in China; labor legislation; limitation of hours; minimum wage laws; workmen's compensation acts; laws regulating employment of women and children; labor bureaus, etc..

CARLTON: The History and Problems of Organized Labor.

3 hours; one semester.

46. FACTORY AND EMPLOYMENT MANAGEMENT. The organization and management of industrial enterprises, location, construction, and equipment of plant; departmental organization; scientific management; problems of labor and employment. *Not offered in 1922-23.*

DIEMER: Factory Organization and Administration.

3 hours; one semester.

48. CORPORATION FINANCE. Problems of the promotion and financing of corporations. Underwriting and sale of securities; receiverships and reorganization; relation of capitalization to earnings and assets; expansion and its financial problems; amortization; the question of state regulation of corporation finance.

LYON: Corporation Finance.

3 hours; one semester.

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49. INVESTMENTS AND SPECULATION. The distinction between investment and speculation. Thc principles of sound investment; the investment market; methods of computing net earnings; government, municipal, railroad, gas, electric, real estate, industrial securities as investment; the character of speculation; the stock exchange. *Not offered in 1922-23.*

CONWAY AND ATWOOD: Investments and Speculation.

3 hours; one semester.

50. INTERNATIONAL BANKING AND FOREIGN EXCHANGE. The monetary and banking systems of the leading nations of the world; foreign banking by American, English, French, and German institutions with especial reference to China; the theory of international exchange; rates of exchange and financing of imports and exports; specie movements. *Not offered in 1922-23.*

3 hours; one semester.

52. ADVANCED ACCOUNTING. Principles of valuation; depreciation; combinations and reorganizations; bankruptcy accounts; trustee and executor's accounts; preparation of reports showing financial and operation conditions. Problems in auditing of industrial, muncipal, banking, insurance, and mining corporation accounts. *Not offered in 1922-23.*

3 hours; one semester.

53. COST ACCOUNTING. General methods of cost-finding; the allocation of selling, distributing, and administrative expenses; compiling of cost records; ledger control of factory accounts. Use and value of graphic charts in final assembly of data and statistics. *Not offered in 1922-23.*

ROWE: Cost Accounting for Manufacturing Budget.

3 hours; one semester.

55. COMMERCIAL TEACHERS' COURSE. Intended for students who expect to teach commercial subjects in Middle Schools and Colleges. Various fundamental business courses are taken up and methods outlined for the presentation of their subject-matter. Students will be given actual teaching practice. Special attention will be paid to the question of selection of courses that will meet the needs of local business communities in China. This course will be given with the cooperation and assistance of the Department of Education. *Not offered in 1922-23.*

4 hours; one semester.

CHEMISTRY

PROFESSOR C. N. LAIRD; ASSISTANT PROFESSOR CHIU YAN TSZ; MR. H. W. HOUSE

THREE ROOMS, approximately 1500 square feet in area, are occupied by the department of Chemistry. One room, seating sixty, equipped as a lecture room, is also used for recitations, another room accommodates fifty-six students in general chemistry, working in three sections, and the third has desks for twenty students in analytical and organic chemistry. Each desk is equipped with running water and (gasoline) gas. The equipment includes both apparatus for demonstration purposes and all the materials and supplies needed for each student to perform the experiments in the courses in general inorganic, analytical, organic and agricultural chemistry.

South China is rich in materials available for many chemical industries. Some of these are already being made use of, but processes are generally simple and often crude. A four-year course in chemistry is now offered, aiming to train men to be able to enlarge the development of these resources, especially those of a non-metallurgical character. A number of industrial processes will be put in operation on a small scale in connection with this course, and plans have been made to have at least one of these in actual use before the end of the academic year 1922-23.

In addition to several hundred well selected books, files and current numbers of the *American Chemical Journal, Journal of the American Chemical Society, Chemical Abstracts, Journal of Industrial and Engineering Chemistry, Chemical and Metallurgical Engineering, Journal of the Franklin Institute, Journal of the American Ceramic Society, Journal of Physical Chemistry, Journal of Biological Chemistry, Journal of the Chemical Society* (London), *Journal of the Society of Chemical Industry, Transactions of American Electro-chemical Society,* and *Science* (China) are available. In some cases the files are complete, in a few others complete since 1900.

A. ELEMENTARY GENERAL CHEMISTRY. A simple introductory course recommended for students expecting to take the Pre-medical and Chemistry groups, but open to others. No College credits.

MCPHERSON AND HENDERSON: First Course in Chemistry.

Class-room 1 hour, laboratory 2 hours, daily; Summer Session.

1a-b. GENERAL INORGANIC CHEMISTRY. The work covers only the ordinary non-metallic (first semester) and metallic (second semester) elements and their compounds, but a thorough knowledge of them is required. The quantitative laws of chemical combination and the principles of chemical equilibrium are mastered, and the habit formed of continually applying these principles to all chemical, including ionic, reactions. Prerequisite: Physics A and B. Laboratory fee: $20.00.

ALEX. SMITH: General Chemistry for Colleges.
ALEX. SMITH: A Laboratory Outline of College Chemistry.
Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

2a-b. ELEMENTARY CHEMISTRY. An introductory course in general chemistry, required of sophomores in the General Arts, Business Administration and Education groups. Laboratory fee: $10.00.

MCPHERSON AND HENDERSON: Elementary Study of Chemistry.
MCPHERSON AND HENDERSON: Exercises in Chemistry.
Class-room 2 hours, laboratory 2 hours (3 credits); two semesters.

11a-b. QUALITATIVE ANALYSIS. A course in the theory and practice of inorganic qualitative analysis to develop habits of chemical reasoning along modern theoretical lines and correct laboratory technique. Prerequisite: Chemistry 1. Physics 11 should precede or accompany this course. Laboratory fee: $20.00.

STIEGLITZ: Qualitative Chemical Analysis, Vol. 1.
A. A. NOYES: Qualitative Chemical Analysis.
Class-room 2 hours, first semester, 1 hour, second semester, laboratory 6 hours, (9 credits for the year); two semesters.

12. ANALYTICAL CHEMISTRY. Short course for Agricultural and Pre-medical students. Lectures on theory of analytical chemistry and training in laboratory methods. Mostly qualitative analysis, but five weeks are spent on preparation and use of standard solutions and simple gravimetric determinations. Prerequisite: Chemistry 1. Laboratory fee: $15.00.

A. A. NOYES: Qualitative Chemical Analysis.
Class-room 2 hours, laboratory 9 hours (6 credits); one semester.

14. ELEMENTARY ORGANIC CHEMISTRY. Short course for Agricultural and Pre-medical students. Survey of the characteristics and relationships of the more important members of the alipathic

series followed by a briefer treatment of the aromatic series. Relation of organic chemistry to medicine, pharmacy and agriculture is emphasized. Agricultural students will be in the laboratory only 3 hours, and receive 4 credits. Prerequisite: Chemistry 12. Laboratory fee: $10.00.

MOORE: Outlines of Organic Chemistry.
FISHER: Laboratory Manual of Organic Chemistry.
Class-room 3 hours, laboratory 6 hours (6 credits); one semester.

31a-b. QUANTITATIVE ANALYSIS. Theory of quantitative separations with discussion of laboratory methods and chemical calculations. Typical methods of gravimetric and volumetric analysis used. Prerequisites: Chemistry 11 and Physics 11. Laboratory fee: $20.00.

BLASDALE: Principles of Quantitative Chemical Analysis.
Class-room 1 hour, laboratory 6 hours (4 credits); two semesters.

33a-b. ORGANIC CHEMISTRY. Broad survey of most important compounds of both the alipathic and aromatic series. Reference made to local materials and industrial applications whenever possible. Preparation of typical organic compounds and recognition of important radicals in the laboratory. Prerequisites: Chemistry 11 and Physics 11. Laboratory fee: $30.00.

H. T. CLARKE: Introduction to the Study of Organic Chemistry.
A. A. NOYES: Organic Chemistry for the Laboratory.
Class-room 3 hours, laboratory 9 hours (15 credits for the year); two semesters.

34. ADVANCED ORGANIC SYNTHESIS. Prerequisite: Chemistry VII. Laboratory fee: $10.00. *Not offered in 1922-23.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

35. ANALYTICAL ORGANIC CHEMISTRY. Technical methods of analysis, with special reference to soap, oils, and other local products. Prerequisite: Chemistry VII. Laboratory fee: $10.00. *Not offered in 1922-23.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

38a-b. PHYSICAL CHEMISTRY. Discussion of equilibrium reactions in gases, thermodynamics, Phase Rule, theories of solutions, and colloid chemistry. Prerequisites: Chemistry 31 and Mathematics 31. Laboratory fee. $10.00. *Not offered in 1922-23.*

Class-room 2 hours, laboratory 3 hours (7 credits for the year); two semesters.

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41a-b. INDUSTRIAL CHEMISTRY. Lectures on general methods of applied chemistry, with special reference to local conditions and the development of Chinese industries. Laboratory work includes use of typical industrial processes on a small scale, and inspection of plants in South China. Prerequisite: Chemistry 33. Laboratory fee: $25.00.

THORP: Outlines of Industrial Chemistry.
Class-room 3 hours, laboratory 9 hours first semester, 6 hours second semester, (13 credits for the year); two semesters.

42. SPECIAL PROBLEMS IN INDUSTRIAL CHEMISTRY. Each Senior in industrial chemistry will be assigned a problem, such as the analysis and study of an important local raw material or the design of a small vegetable oil plant, on which a report will be made. Library work, conferences, etc.. Prerequisite: Chemistry 41. Laboratory fee: $10.00. *Not offered in 1922-23.*
Laboratory 6 hours, (3 credits); one semester.

45. AGRICULTURAL CHEMISTRY. See College of Agriculture section of this Catalogue for details.

STODDART: Chemistry of Agriculture.
Class-room 2 hours, laboratory 4 hours, (4 credits); one semester.

47. FOOD ANALYSIS. Analysis of typical Chinese foodstuffs. Prerequisite: Chemistry 33, but open to Agricultural students who have Chemistry 14. *Not offered in 1922-23.*

WOODMAN: Food Analysis.
Class-room 1 hour, laboratory 6 hours, (4 credits); one semester.

CHINESE
中 國 文 學

PROFESSOR CHAN TSAP NG; ASSOCIATE PROFESSOR CHAN CHUNG WAI; MR. CHAN SHAU YI.

Sub-freshman Chinese
預 科 國 文

A and B. CHINESE COMPOSITION (國文). Required of all Subfreshmen.

COMMERCIAL PRESS, LTD.: Middle School Kwok Man (國文). Book 4.
3 hours, two semesters.

C and D. SELECTIONS FROM CHINESE LITERATURE (模範文).
2 hours; one semester.

College Courses
Chinese Language (文 字 學)

11a-b. CHINESE CHARACTERS. A study of the philology and linguistics of the Chinese characters, both ancient and modern. This course will prepare students to do research work in the field of Chinese antiquity and also will prove valuable to the student who intends to study the new types of Chinese literature for the layman. Lectures, discussions and practical work.
2 hours; two semesters.

31a-b. THE EVOLUTION OF CHINESE CHARACTERS. *Not offered in 1922-23.*

Chinese Literature (文 學)

1a-b. INTRODUCTION TO CHINESE LITERATURE, (文學概論). This course seeks to familiarize the students with the forms and types characteristic of Chinese literature and to prepare them for the study of special types and special periods. Lectures, assigned reading and papers. Prerequisite after July 1, 1923 for all other courses in Chinese Literature.
2 hours; two semesters.

11a-b. HISTORY OF LITERATURE (文學史). Lectures, discussions and reports.
2 hours; two semesters.

12a-b. CHINESE PROSE WRITINGS (文詞學). Lectures, discussions and reports.
2 hours; two semesters.

13a-b. VERSIFICATION (詩詞學). The different types and forms of Chinese poetry, both ancient and modern, are critically studied. In this course the student will endeavor to make improvements on the current forms of hymns, songs, and histrionic productions for the sake of popular education. Lectures, discussions and practical work. Permission of the teacher in charge, based upon

a grade of 80 or better in Chinese Literature 1a-b is necessary for a student electing this course.

2 hours; two semesters.

14a-b. THE CHINESE NOVEL (長篇小說). Reading and discussion of the most representative Chinese Novels with special attention to the problems of material and method.

2 hours; two semesters.

15. THE SHORT STORY (短篇小說). This course discusses some of the problems of material and method in the short story, drawing freely from western authors for illustrations and applying their theories and methods to Chinese material. Lectures, discussions, assigned reading and bi-weekly themes.

2 hours; one semester.

31a-b. LITERARY CRITICISM (文學評論) A brief examination, by modern methods and comparison with western theories, of the ancient essays on literary criticism and a discussion of some of the fundamental principles to be adopted for sound critical judgment and literary appreciation.

2 hours; two semesters.

32. MODERN WRITERS (近代文學). A review of the representative works of the leading writers of the last fifty years with careful attention to both style and content. The main tendencies in Chinese literature are discussed. Lectures, assigned reading, reports and papers.

3 hours; one semester.

Composition in Chinese

1a-b. Prescribed for all students in the College. This is not a course in Chinese classics and literature. The aim of the course is to guide and encourage the student to make use of the knowledge which he has acquired through the medium of the English language by expressing it in Chinese. This is so essential in the preparation of the increasing number of men who are looking forward to teaching in grammar and middle schools, that its importance must be emphasized. Students are classified according to the general lines of study which they pursue and are required to translate English works into modern and idiomatic Chinese. Opportunity is afforded for

collateral reading of books already translated by acknowledged authorities and for informal class discussions.

2 hours; two semesters.

11a-b. A continuation of course 1.

2 hours; two semesters.

ECONOMICS

The courses in Economics are described under the heading of Business Administration, on pages 60 to 66 of this catalogue.

DEPARTMENT OF EDUCATION

PROFESSOR H. B. GRAYBILL; MR. J. N. KEYS;
MR. YEUNG KWOK TSUEN.

THE DEPARTMENT of Education of the College of Arts and Sciences is organized to facilitate the correlation of:

1. The professional preparation of teachers through Education courses in the College of Arts and Sciences.
2. The supervision of primary and middle schools conducted in connection with the Canton Christian College.
3. The maintenance of a Teachers' Employment Bureau, the preparation of educational publications, and the conduct of other activities designed for the service of Chinese schools in general and the Christian schools of Kwangtung in particular.

To students in this Department, the College offers the following certificates and diploma, and stands ready to recommend approved candidates for the positions indicated below upon satisfactory completion of the requirements shown:—

Certificate and Position	Requirement
JUNIOR CERTIFICATE IN EDUCATION	
As teacher of general subjects in the Lower Middle School	Education 1, 2, 11, 12, and 10 (4 credits), with 45 additional credits in any college group.

SENIOR CERTIFICATE IN EDUCATION

A. As teacher of general subjects in the Lower Middle School	Education 1, 2, 11, 12, and 10 (4 credits), with the Bachelor's degree in any college group.
B. As teacher of English, or Science, or other special subject	Education 1, 2, 11, 10 (4 credits), and Special (21, 22, 23, 24, 25, 26, or 27) and the Bachelor's degree with a satisfactory preparation in the subject to be taught.
C. As Principal or Supervisor in Lower Middle School	Education 1, 2, 11, 12, 14, and 10 (6 credits or one year's experience as a regular teacher under supervision) and the Bachelor's degree.

BACHELOR OF ARTS IN EDUCATION

As Principal or Supervisor in Senior Middle School, or as Specialist in Teaching Training Subjects	Education 1, 2, 11, 12, 13, 14, and 31, or 32, and 10 (8 credits or one year's experience as a regular teacher under supervision) and the Bachelor's degree.

1. THE LEARNING PROCESS. A fundamental course in how to study and the psychology of learning, adapted to the needs of the college student as well as those of a prospective teacher. Original nature and the social inheritance, instinct and habit, the development of character, the significance of interest and fatigue, how to memorize, the technique of drill, note-taking and outlining, the use of books, work and play in the educative process. Lectures, readings, and demonstrations.

C. C. C. BULLETIN No. 28: How to Study.
STRAYER AND NORSWORTHY: How to Teach.

4 hours; one semester.

2. TECHNIQUE OF INSTRUCTION IN MIDDLE SCHOOLS. The elements of classroom method and the teacher's art, organization of subject matter, the principle of mastery, types of learning, appreciation, training in expression, in reasoning, problem solving and the project method, varieties of classroom exercise, supervised study, the socialized recitation, laboratory and lecture methods, the art of questioning, lesson planning, the assignment, provision for individual differences, and the use of tests in the improvement of instruction. Education 1 as a prerequisite is desired but not required. Lectures, readings and observations.

PARKER: Methods of Teaching in High Schools.

5 hours; one semester.

8. SCIENTIFIC STUDY OF EDUCATION. An introduction to the fundamental problems of the school and its relations to society, together with the modern scientific approach to the study of these problems. Not open to students who have had more than one college course in Education.

JUDD: Introduction to the Scientific Study of Education.

1 credit; Summer Session.

9. PRACTICUM IN SCHOOL MANAGEMENT. This course affords for a limited number of students the opportunity of acquiring by direct experience under supervision an acquaintance with the practice and details of efficient school administration.

1 credit; Summer Session.

10. PRACTICE TEACHING. Students in education may gain one credit for two hours or two credits for four hours a week during each semester of practice teaching, provided this is done under the supervision of the instructor and is of a grade which meets his approval. A certain amount of collateral reading is expected, and a report is required upon the actual conduct of the course taught or a well-kept daily lesson plan book. Not more than eight credits in Practice Teaching may be offered for a degree.

1 or 2 credits a semester.

11. PRINCIPLES OF SECONDARY EDUCATION. A survey of the nature and place of the secondary school in the light of China's needs, valuable to students of sociology and of education alike. The historical development of secondary schools in Europe and in China, aims and functions of secondary education in a democracy, the psychology of adolescence, vocational guidance and training, moral direction, types of middle schools in China and abroad, the curriculum, principles of selection, emphasis and order. Education 1 and 2 as prerequisites are desirable but not required. Lectures, readings and investigations.

INGLIS: Principles of Secondary Education.

4 hours; one semester.

12. METHODS AND MANAGEMENT IN THE LOWER MIDDLE SCHOOL. A study of pupil management, organization, discipline, routine and school hygiene as affecting the classroom teacher, together with an introduction to the place, content and methods of instruction in most or all of the following subjects: English,

Chinese, Arithmetic, Religion, History, Hygiene, General Science, Geography, Handwork, Music and Art. Prerequisite: Education 1 or 2. Lectures, readings and observation.

RAPEER: The Teaching of Elementary School Subjects.

5 hours; one semester.

13. SCIENTIFIC METHOD IN THE STUDY OF EDUCATION. An introduction to the technique of statistical and experimental investigation as applied to the work of the school, the elements of statistics, tabulation and graphical presentation, measurement of classroom products, derivation and application of scale tests in school subjects, mental tests and experiments in teaching method. Prerequisite: Nine credits in Education.

Class-room 3 hours, laboratory 4 hours (5 credits); one semester.

14. MIDDLE SCHOOL ADMINISTRATION AND SUPERVISION. A practical course in the conduct and supervision of secondary schools, office management, record-keeping and reports, equipment, school supplies, school buildings and decoration, grounds, sanitation, programs, student organizations, boarding department, library, athletics, supervision of health, inter-school concerns, relations to parents and the community, celebrations and ceremonies, employment of staff, training of teachers in practice, supervision of instruction, evaluation of achievement, classification and promotion, and school surveys. Lectures, observation, readings and seminar. Open to students who have completed Education 1, 2 and 11 or equivalent, and who declare their expectation of entering administrative work.

5 hours; one semester.

14m. MIDDLE SCHOOL ADMINISTRATION. Two hours of the above-described course in school administration are so arranged as to constitute a unit in themselves, open for election by teachers and students who have had a year's experience in school management or who hold at the time a position as principal, assistant principal or commandant in a school of recognized standing. These hours are arranged to suit those who may come from a distance, probably on Saturdays at eleven o'clock. Lectures and seminar as above. No credit allowed those who have previously taken course 14.

2 hours; one semester.

18. READINGS IN EDUCATION. Readings under direction on some approved topic of educational theory or practice, followed by the submission of a satisfactory paper or translation. Open only to students holding credit for two or more courses in Education.

1 credit; Summer Session.

SPECIAL COURSES. The following special courses, ranging from three to five semester hours in length, are offered in rotation as demand arises. The satisfactory completion of one such course is required of all candidates for either Junior or Senior Certificate in Education as teacher of a particular subject. Effort is made to include in each course a certain review of the content suited to Middle School classes, and emphasis is placed upon observations and actual participation in classroom work.

21. THE TEACHING OF ENGLISH.

22. THE TEACHING OF CHINESE.

23. THE TEACHING OF MIDDLE SCHOOL MATHEMATICS.

24. THE TEACHING OF NATURAL SCIENCE.

25. THE TEACHING OF SOCIAL SCIENCES.

26. THE TEACHING OF RELIGION AND ETHICS.

27. THE TEACHING OF HANDWORK AND FINE ARTS.

28. THE TEACHING OF COMMERCIAL SUBJECTS: See Business Administration 55.

31. SCIENTIFIC STUDY OF THE CURRICULUM. A course for advanced students to consider in a detailed and highly practical manner the ends to be attained in schools and courses of the various types common in China, and the varieties of materials needed and available for the purpose. Typical courses of study will be analyzed and compared, the proper content and arrangement of the customary subjects considered at length and the possibility of valuable innovations studied. Much attention will be given to textbooks, syllabi and other material appliances. Current progress in the application of scientific methods to the discovery of definite needs and aims will be emphasized, and provision made for experimental work in this

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direction. Prerequisites: Education 1, 2, 11, 12, and 13, or equivalent. Lectures, laboratory and seminar.

SNEDDEN: Problems of Secondary Education.

5 hours; one semester.

32. PROBLEMS OF ADMINISTRATION AND SUPERVISION IN CHINA. An advanced treatment of the more important and difficult problems of middle school administration, including standards, organization, development, and financing of both private and government institutions, the implications of universal compulsory education, attendance, sources of income, distribution of expenditures, part-time schools and extension activities, plans for the caring for special types of pupil, the preparation of teachers, relation of middle schools to primary and university, relation of mission schools to the government system, etc.. Prerequisites: Education 5 and 6.

5 hours; one semester.

ENGLISH

PROFESSOR L. D. LOSHE; ASSOCIATE PROFESSOR J. C. GRIGGS; MR. A. H. HOLT; MR. CHAN SHAU YI.

A and B. SUB-FRESHMAN ENGLISH. Prescribed for all Sub-freshmen. The aim of this course is clear, simple and logical expression, preparing the student to use English more freely in his other courses as well as to continue the study of the language itself. Composition with emphasis on the principles of structure in the sentence and paragraph, and reading of texts sufficiently varied to develop the student's vocabulary.

WARD: Theme Building.
SMITH: Short Stories, Old and New (Ginn).
LOWELL: Vision of Sir Launfal, edited by Davidson (Houghton Mifflin).
SCOTT: Ivanhoe, Abridged (Longmans' Class-Books of English Literature), or
SHAKESPEARE: Julius Cæsar, Hudson Edition (Ginn).
BURROUGHS: Afoot and Afloat (Houghton Mifflin.)

5 hours; two semesters.

C and D. SUPPLEMENTARY ENGLISH FOR SUB-FRESHMEN. A course designed to supplement courses A and B, and prescribed for certain students on recommendation of the instructor of English A or B. No credit.

2 hours; two semesters.

1a-b. ENGLISH COMPOSITION. Prescribed for all Freshmen, except those in the Agricultural Group. Study of composition and style with emphasis on the relation between clear thinking and clear writing. While the work of the course is chiefly in composition, there are regular assignments of reading intending to illustrate the principles studied as well as to give practice in reading. Rhetoric, reading, themes and conferences. Supplementary English may be required for those whose English is deemed inadequate.

GENUNG AND HANSON: Outlines of Composition and Rhetoric (Ginn).
BURKE: Speech on Conciliation with America, edited by Lamount (Standard English Classics; Ginn).
TENNYSON: Idylls of the King, edited by Boughton (Ginn).
WEBSTER: First Bunker Hill Oration, edited by Gaston (Ginn).
CAMPBELL AND RICE: A Book of Narratives (Heath).

4 hours; two semesters.

2 a-b. ENGLISH COMPOSITION FOR COLLEGE OF AGRICULTURE STUDENTS. Prescribed for Freshmen. A course in composition and reading, corresponding with some modification to 1a-b, with themes on subjects taken from the practical work and the texts of the courses in agriculture.

3 hours; two semesters.

3. FICTION. A course in rather rapid reading and criticism of Modern Novels. The text is changed each year.

R. L. STEVENSON: Selections, edited by Canby (Scribner).

1 hour daily (1 credit); Summer Session.

11a-b. READING COURSE IN MODERN ENGLISH. The aim of this course is to familiarize the student with the idiom and vocabulary of modern periodicals and to give him some idea of the scope and content of the leading weekly and monthly magazines.

2 hours; two semesters.

12a-b. ENGLISH PROSE FICTION. While giving the student practice in rapid reading this course discusses some of the problems of material and method in the short story and the novel. Reading of works of Dickens, Stevenson and modern novelists, with lectures, discussions and papers based on the reading.

3 hours; two semesters.

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14a-b. RHETORIC. This course in the forms and methods of writing has a two-fold aim—to develop the student's powers of self-expression and to enable him to read with understanding of the author's methods and with enjoyment of literary art. Supplementary readings. Open to Sophomores and above who have received a grade of 85 or better in English 1, or by permission of the instructor.

2 hours; two semesters.

15. PHONETICS. A study of the elements of pronunciation and expression, in both theory and practice. An enquiry into methods of teaching Chinese students who are beginning spoken English. The semester's work is finished by a public test in reading or declamation.

GRIGGS: Efficient Speech.

2 hours; one semester.

31a-b. INTRODUCTION TO ENGLISH LITERATURE. Open to students who have taken English 11 or English 12, or by permission of the instructor. This outline is intended to furnish a background for the study of special types of literature and a point of departure for the study of special periods. Lectures, assigned reading and the preparation of papers and reports.

SIMONDS: History of English Literature.
MANLY: English Prose and Poetry.

3 hours; two semesters.

32a-b. MATERIALS OF MODERN LITERATURE. In a very simple and elementary form this course makes an approach to the methods of comparative literature. It takes up the great common sources of material: the most important of the classical stories, the Norse stories, the Roland stories and the Arthurian stories. After studying the original outline and significance of the stories the student is shown some of the modern developments of the material. Lectures, assigned reading and papers.

3 hours; two semesters.

33a-b. MODERN PLAYS AND PLAYWRITING. Reading and discussion of recent plays of importance, with study of the principles and methods of playwriting, and with practice in writing plays.

2 hours; two semesters.

34a-b. MODERN PROSE AND POETRY. Reading and discussion of some of the chief works of contemporary writers, especially in fiction and the drama. Open to students who have taken English 11 or English 12, or to other students by permission of the instructor.

3 hours; two semesters.

35a-b. ENGLISH LITERATURE FROM 1830 TO 1890. A study of the literature of this period with special attention to the great poets of the Victorian period.

3 hours; two semesters.

36a-b. JOURNALISM. A brief study of the value, organization and operation of the daily, weekly and monthly press; study and practice in collecting, writing, editing, and publishing news, articles and editorials. Prerequisite: 15 credits in English.

2 hours; two semesters.

FRENCH

1. ELEMENTARY FRENCH. Study of the essentials of grammar and composition, with the reading of simple texts.

THIEME AND EFFINGER: French Grammar.

5 hours; one semester.

2. INTERMEDIATE FRENCH. Study of more advanced grammar including all the irregular verbs. Much reading of prose of moderate difficulty.

FRASER AND SQUAIR: French Grammar.

5 hours; one semester.

12. FRENCH PROSE. A rapid reading course in the best French novels and essays of the classical and modern authors.

4 hours; one semester.

13. FRENCH DRAMA. Rapid reading of selected plays of Corneille, Racine, Moliere, Hugo, and Rostand.

4 hours; one semester.

14a-b. FRENCH COMPOSITION. A course in advanced French composition and grammar covering the finer and more

technical points of the language. This course should accompany courses 12 and 13.

LONGMAN: French Composition.

1 hour, two semesters.

GEOLOGY

11. GENERAL GEOLOGY. An appreciation of the general principles underlying the structure and formation of the earth. Earth processes and earth history in relation to modern life and human activity; the formation of soil from different types of rock; elementary mineralogy.

CHAMBERLAIN AND SALISBURY: A College Text-Book of Geology.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

GERMAN

1. ELEMENTARY GERMAN. Simple exercises and grammar. Reading of easy texts.

ALLEN AND PHILLIPSON: A First German Grammar.
GRONOW: Geschichte und Sage. 5 hours; one semester.

2. INTERMEDIATE GERMAN. Study of grammar continued. Much reading of prose of moderate difficulty, with considerable attention given to the reading of scientific German.

HILLERN: Hoeher als die Kirche, edited by Jonas.

5 hours; one semester.

12. MODERN GERMAN. Rapid reading of some of the best German short stories and novels.

4 hours; one semester.

13. CLASSIC GERMAN. The reading of at least one work of importance of each of the three great classicists: Lessing, Goethe, and Schiller.

4 hours; one semester.

14a-b. GERMAN COMPOSITION. Study of advanced German idiom and syntax. This course should accompany courses 12 and 13.

BACON: German Composition. 1 hour; two semesters.

GOVERNMENT

DR. S. K. WEI; PROFESSOR H. C. BROWNELL

11. PRINCIPLES OF GOVERNMENT. The origin, development, principles and problems of Government. Special attention paid to the political development and problems in China.

HAINES AND HAINES: Problems and Principles of Government.

3 hours; one semester.

12. COMPARATIVE GOVERNMENTS. Comparative study of the governments of the leading European countries, America, Japan, and China with particular emphasis on the political conditions and problems in China.

LOWELL: Greater European Governments.

3 hours; one semester.

13. MUNICIPAL GOVERNMENT. The various forms and methods of municipal government, with particular attention to the development of municipal government in Canton and other Chinese cities. Prerequisite: Government 11 or 12.

3 hours; one semester.

15. INTERNATIONAL LAW. The origin, development, principles and problems of international law with special attention to China's international relations. Prerequisite: Government 11 or 12.

3 hours; one semester.

GREEK

1a-b. HELLENISTIC GREEK. Elementary course, primarily for pre-theological students. The grammar, and simple exercises. Readings and translation from St. John's Gospel.

MOULTON: Introduction to New Testament Greek.
GREEN: Vocabulary of the New Testament.
NESTLE: Greek New Testament.

2 hours; two semesters.

11a-b. HELLENISTIC GREEK. Second year course. Readings and translation from the New Testament. Same texts continued.

3 hours; two semesters

HISTORY

PROFESSOR H. C. BROWNELL

A and B. ANCIENT AND MEDIÆVAL HISTORY TO THE PROTESTANT REVOLUTION. Assigned readings and essays.

ROBINSON AND BREASTED: History of Europe: Ancient and Mediæval.
3 hours; two semesters.

1a-b. MODERN EUROPEAN HISTORY FROM THE PROTESTANT REVOLUTION TO THE CLOSE OF THE FRANCO-PRUSSIAN WAR. Assigned readings and essays.

ROBINSON AND BEARD: History of Europe: Our Own Times.
3 hours; two semesters.

2. THE LAST FIFTY YEARS OF EUROPE. A rapid survey of the Great Powers from 1870 to the settlement at the close of the Great War. History 1 is recommended but not required as a prerequisite. No credit for those who have had History 13.

BOBINSON AND BEARD: History of Europe: Our Own Times.
1 hour daily (1 credit); Summer Session.

4. INDUSTRIAL HISTORY OF ENGLAND. A study of the evolution of modern economic and social institutions as illustrated in the history of England. Readings in the sources and regular reports. History 4 may be elected instead of History 1b.

CHEYNEY: Industrial and Social History of England.
3 hours; one semester.

11. THE HISTORY OF THE UNITED STATES SINCE 1850. A rapid review of the outstanding topics of earlier American history and a close study of political, social and economic developments since the Civil War. The party system is explained and criticized, with a discussion of America's position as a world power. Prerequisite: History 1a-b.

HAWORTH: The United States in Our Own Times.
3 hours; one semester.

13. EUROPE IN OUR OWN TIMES. A study of the working of the European state system, 1870-1914, the Balkan Problem and the Balkan Wars, European colonial expansion and the basis of the New Imperialism, and the causes of the Great War. Lectures and assigned readings in such books as Hayes: Political and Social History of Modern Europe, Vol. II; Dawson: The German Empire, 1870-1914; Fife: Germany between Two Wars; Skrine: Russia; Robertson: Bismarck; Marriott: The Eastern Question; Muir: Expansion of Europe, etc.. Prerequisite: History 1a-b. Two credits for those who have had History 2. *Offered in 1923-24.*

3 hours; one semester.

14. THE GREAT WAR AND THE PEACE SETTLEMENT. A detailed study of the War but with less emphasis on the military than on the other phases; the redistribution of dependencies as a result of the defeat of Germany and Turkey; the Succession States of Central Europe; the republican constitution of Germany; the new ideals of international relations; lessons already obtainable from the Great War and the treaties which have followed it. A brief study of select documents. *Offered in 1923-24.*

HAYES: A Brief History of the Great War.
3 hours; one semester.

17. CHINA'S INTERNATIONAL RELATIONS. Notes on the early intercourse of China with the West and a careful study of their relations in the 19th and 20th centuries with Europe, America and Japan. Lectures and assigned readings in such books as Williams: History of China; Morse: International Relations of the Chinese Empire; Li Ung Bing: Outline of Chinese History; Wheeler: China and the World War; Cheng: Modern China.
3 hours; one semester.

18. CHINA'S NEIGHBORS. The opening of Japan and her rise to power are traced to show the reaction upon China and explain the present conflict of interests. The constitution and politics of Japan are discussed, also the progress made in Siam, India and the Philippine Islands with their bearing upon needs in China and reforms begun. Lectures and assigned readings in such books as Gubbins: Progress in Japan 1853-71; McLaren: Political History of Japan in the Meiji Era; Porter: Japan, the New World Power; Kawakami: Japan in World Politics; Worcester: The Philippines, Past and Present, etc..
3 hours; one semester.

21a-b. HISTORY OF CHINESE RITES, CUSTOMS, CEREMONIES AND ETIQUETTE (中國禮俗史). This is an historical and critical study

of the Chinese principles and rules of propriety and social order. Lectures, discussions and reports.

2 hours; two semesters.

22. Legal and Political History of China (中國法制史). A general survey of the legal and political aspects of China's history and development.

2 hours; one semester.

23. History of Chinese Immigration into Foreign Countries (華僑史). This is an historical and statistical study of the conditions of Chinese abroad. Reports will be gathered for the guidance of Chinese going to and returning from foreign lands. This course prepares the way for the establishment of an information bureau for Chinese emigrants. Lectures and reports.

2 hours; one semester.

HOME ECONOMICS

Mrs. M. C. Rand

1a-b. Cookery. Open to Sub-freshmen and to students who have not had a previous course in cookery. Supplementary work will be assigned to all students above the grade of Sub-freshmen. The course includes the study of the elements of food, the principles of cookery, classification of foods, and the preparation of simple dishes. The laboratory work is conducted by demonstration, in groups, and by individual methods. A carefully kept note-book is required.

Lecture 1 hour, laboratory 4 hours (3 credits); two semesters.

2a-b. Cookery. A continuation of Cookery 1. Analysis of food, menu making, study of digestion, absorption, and metabolism, cookery of infants' food, estimation of calorie values. Prerequisites: Chemistry 1 or 2 and Cookery 1.

Class-room 2 hours, laboratory 4 hours, (4 credits); two semesters.

3a-b. Sewing. Needle work, machine work, drafting patterns, use of commercial patterns, garment making. A brief history of domestic art and textile industry.

Laboratory 6 hours (3 credits); two semesters.

Laboratory fee of $5.00 per year in each course. In addition to the laboratory fee, the students in the classes in cookery pay for food supply from month to month approximately $6.00 per semester to a business manager selected from the class.

MATHEMATICS

Professor W. E. MacDonald.

A. Intermediate Algebra. Numerical and literal quadratic equations; irrational forms; theory of quadratic equations; surds; ratio; proportion; variation; logarithms; arithmetical, geometrical and harmonical progressions.

Hawkes-Luby-Touton: Second Course in Algebra, Revised Edition.

4 hours; one semester.

B. Plane Trigonometry.

Bauer and Brooke: Plane and Spherical Trigonometry.

4 hours; one semester.

1. Solid Geometry. Solid geometry, including spherical geometry. This course presupposes plane geometry and a working knowledge of algebra through quadratic equations.

Beman and Smith: Solid Geometry. 4 hours; one semester.

2. College Algebra. Variables and functions, equations, theory of equations, series, undetermined coefficients, permutations and combinations, probability.

Rietz and Crathorne: College Algebra. 4 hours; one semester.

11a-b. Analytical Geometry. This course aims to increase the student's appreciation of the processes of mathematical thought and the accuracy of expression afforded thereby; to train him in the application of fundamental principles of the analytic method both in the plane and in space; the straight line, conic sections, quadric surfaces, with special attention to locus problems. The idea of the derivative is introduced.

Fine and Thompson: Coordinate Geometry. 4 hours; two semesters.

31 and 32. Differential and Integral Calculus. Drill on the methods of the Differential and Integral Calculus with numerous applications to geometry and physics, the theoretical development being as rigorous as the powers of each class will warrant. As a first course, however, its chief aim is to develop skill in

the manipulation of formulas and in the statement and solution of problems. Indispensible for any advanced study of mathematics or physics and for intelligent engineering.
OSGOOD: Differential and Integral Calculus. 4 hours; two semesters.

34. DIFFERENTIAL EQUATIONS. Prerequisite: Mathematics 31 and 32. This course is indispensible for students looking toward electrical engineering.
D. A. MURRAY: Differential Equations. 3 hours; one semester.

36. SOLID ANALYTICAL GEOMETRY. Prerequisite: Mathematics 31 and 32.
C. SMITH: An Elementary Treatise on Solid Geometry. 3 hours; one semester.

MUSIC

Credit to the extent of not more than 2 credits in one semester, nor more than 6 credits toward graduation, may be secured for music study, if under the supervision of the College and of approved grade. Ordinarily some special technical study of music will be expected of a student seeking credit in music.

PHILOSOPHY

DR. S. K. WEI; PROFESSOR CHAN TSAP NG

11a-b. HISTORY OF WESTERN PHILOSOPHY. A general survey of the development of Western philosophy from the Greeks to the present time. Students are required to read the original sources as much as possible using the histories of philosophy as guides. Ancient and mediæval philosophy are considered in the first semester, modern and contemporary philosophy in the second.
THILLY: History of Philosophy. 3 hours; one semester.

12. PROBLEMS OF PHILOSOPHY. An introductory course dealing with the nature and import of philosophy, the problems of knowledge, metaphysics and value.
MARVIN: First Book of Metaphysics. 3 hours; one semester.

13. ETHICS. The origin and development of morality. Typical ethical theories. Modern ethical problems. Collateral reading is required.
DEWEY AND TUFTS: Ethics. 3 hours; one semester.

14. LOGIC. Fundamental principles of logic; deduction, induction, the scientific method and judicial proof.
WELTON: Groundwork of Logic. 3 hours; one semester.

21. ANCIENT CHINESE CLASSICAL PHILOSOPHERS (古代哲學). Selected readings from the works of Lao-tzu, Confucius, Chuang-tzu, Me-tzu, and others.
4 hours; one semester.

22. MODERN CHINESE CLASSICAL PHILOSOPHERS (近代哲學). Selected readings from the works of the modern Confucius schools. Lectures, discussions and reports. Prerequisite: Philosophy 21.
4 hours; one semester.

31. CONTEMPORARY PHILOSOPHY. A general survey of contemporary philosophical tendencies. The main issues of idealism, pragmatism and realism. Prerequisite: Philosophy 11a-b. *Not offered in 1922-23.*
3 hours; one semester.

32. ADVANCED METAPHYSICS. Problems in current metaphysics selected from recent writings of contemporary philosophers. Prerequisites: Philosophy 11a-b, 12, and 31. *Not offered in 1922-22.*
3 hours; one semester.

PHYSICS

PROFESSOR C. K. EDMUNDS; PROFESSOR W. W. STIFLER, ASSOCIATE PROFESSOR A. R. KNIPP; MR. M. W. WOOD

THE PHYSICS DEPARTMENT occupies two large rooms and a shop on the second floor of Martin Hall. Its demonstration and laboratory apparatus, and the shop equipment with lathes and forge, afford ample opportunity for experimentation in both elementary and advanced courses. It has a well equipped Meteorological Station and makes daily observations of atmospheric temperature and pressure, soil temperature, duration of sunshine, wind-velocity river-level, rain-fall, evaporation and humidity. The Physics library comprises 600 volumes and includes files of the *Philosophical Magazine*, *Physical Review*, *Science Abstracts*, *etc.*.

A and B. PROJECT PHYSICS. The chief object is to give the student an understanding of how physical principles underlie many experiences in every-day life and how some of the laws of

physical science are applied in the home and the industries.
MILLIKAN AND GALE: Practical Physics.
AHRENS, HARLEY AND BURNS: Practical Physics Manual.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

11a-b. GENERAL PHYSICS. A fairly rigorous presentation of general physics. A working knowledge of algebra, geometry and trigonometry is required and preferably a previous study of the equivalent of Physics A and B. The laboratory work aims to train the student to make accurate physical measurements and to reason clearly from the results recorded. A brief study of the precision of measurements and training in practical photography are included.
KIMBALL: College Text-book of Physics.
AMES AND BLISS: A Manual of Experiments in Physics.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

31a-b. GENERAL PHYSICS. Lectures on the mathematical basis of Mechanics, Heat, Light and Electricity. The laboratory course is made up of experiments requiring a considerable degree of precision.
Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

PSYCHOLOGY

MR. J. N. KEYS

31. GENERAL PSYCHOLOGY. This course aims to afford a systematic view of human behavior and mental processes together with their physiological accompaniments. Emphasis is laid upon applications to education, with experiments in this field. Prerequisite: Education 1.
BREESE: Psychology.
Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

32. SOCIAL PSYCHOLOGY. A study of the psychology of the group with particular application to government and industry: mob-mind, fashion, custom, public opinion, suggestion, persuasion, leadership, advertising, scientific management and social control. Open, by permission, to students of Sociology or Psychology.
3 hours; one semester.

33. ADVANCED PSYCHOLOGY. This course is planned to acquaint students with the theory of the subconscious and its principal applications in the fields of medicine, law and religion. Subjects

treated include genius, insanity, hypnotism, spiritualism, telepathy, dual personality, conversion, psycho-analysis and mental hygiene. Prerequisite: Psychology 31.
Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

RELIGION

PROFESSOR A. BAXTER.

A and B. THE CHRISTIAN CHURCH. Required of all Sub-freshmen. The aim of this course is to give some idea of the nature, purpose and progress of the Christian Church in the world. Some account of the nature and origin of the Church in the New Testament and of its development in Apostolic Times, especially through the missionary labors of St. Paul. The Church in the Roman Empire and its great leaders. The great periods of Church History and their significance. The Church of to-day and its place in the world as an agent for the coming of the Kingdom of God.
1 hour; two semesters.

1. CHRISTIAN ETHICS. Primarily for Freshmen.
The aim is to outline the Ethics of Jesus, to compare them with other ethical systems, and to indicate their beauty, depth, and supremacy as an ideal of conduct which can be translated into practice by the help of the Spirit of God. Some account will be given of Non-Christian Ethical systems, especially as found in China, India, and Greece, and of the ethics of the Old Testament. The ethical ideas of Jesus will be indicated and discussed and the endeavor will be made to present them as an ideal of human conduct in individual, social and international relationships.
2 hours; one semester.

3a-b. COMPARATIVE RELIGION. This course examines as far as possible the chief religions of ancient and modern times with a view to answering the question "is a world religion possible and if so, is that world religion Christianity?" 3a includes some discussion of the nature, origin and validity of Religion. An examination of some of the lower forms of Religion. A study of the religions of Egypt, Assyria and Babylonia, Persia, Greece and Rome. 3b includes some account of the chief religious systems surviving in the world to-day—especially the religions of India, China and Japan—

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with a view to showing how the best elements of these religions are conserved, ennobled, and transcended in Christianity.

MENZIES: History of Religion.

2 hours; two semesters.

5a-b. OLD TESTAMENT HISTORY. A detailed study of Old Testament times and especially of the Hebrew people, aiming to relate the personalities, institutions, and writings of the Old Testament to Israel's national life and to other nations which influenced its historical development.

2 hours; two semesters.

11. CHRISTIAN APOLOGETICS. The aim is to present Christianity so far as is possible as a reasonable faith, and to help the student towards the solution of problems that arise in the relation between Christian doctrine and practice and other branches of human knowledge. A statement and defence of the Christian doctrines of God, man and the world as against agnosticism, naturalism and the views of materialism and pantheism. Problems connected with revelation and inspiration, miracles, prayer, forgiveness, the future life and man's destiny.

PEAKE: Christianity, its Nature and its Truth.

3 hours; one semester.

13. THE PERSON OF JESUS CHRIST. Prerequisite: Religion 11. This final course aims at gathering together the conclusions reached in previous courses and at showing how their validity depends on our interpretation of the central fact—Jesus Christ. An endeavor will be made to reach an interpretation adequate to previous conclusions and which will justify Christ's claim to be for all time the "Light of the World."

Jesus Christ as interpreted by Himself in the gospels, especially St. John. The meaning of His incarnation and death. Jesus Christ as interpreted by the growing thought and experience of the church, and the influence He has exerted and still exerts on history.

2 hours; one semester.

31a-b. RELIGIOUS HISTORY OF CHINA (中國宗教史). A study of the religious life and thought in the history of China.

2 hours; two semesters.

SOCIOLOGY

MR. YEUNG KWOK TSUEN; MR. J. N. KEYS

A and B. CIVICS AND SOCIOLOGY. An introduction to China's problems in social science.

DOLE: The New American Citizen.
TOWNE: Social Problems.

3 hours; two semesters.

11. SOCIAL PROBLEMS. A general survey of a number of problems of the family, the race and the social order. Problems of the family; population; public welfare; women and children in industry; the status of women; social pathology; crime; famine; poverty; rural and urban life; industrial ethics; Chinese emigration; colonization; etc.

ELLWOOD: Sociology and Modern Social Problems.
LEONG AND TAO: Village and Town Life in China.

3 hours; one semester.

31. GENERAL SOCIOLOGY. General principles of the origin, development and organization of society up to its present stage. Systematic study of the social population, forces, processes, products and principles. Field of social service. Special attention to the social order and policies of the Orient. The class will undertake some simple field work. Besides the text, the student will become familiar, in the main, with the leading sociological systems and theories. Prerequisite: Sociology 11, if possible.

ROSS: Principles of Sociology.

3 hours; one semester.

32. SOCIAL PSYCHOLOGY. Identical with Psychology 32, described on page 90.

3 hours; one semester.

33. PEACE AND WAR. War and militarism in their sociological aspects. Theories of war; national defense; maintenance of peace; theories of non-resistance; international peace. The course will be conducted as a round table discussion, and a systematic series of readings and reports required.

2 hours; one semester.

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The College of Agriculture

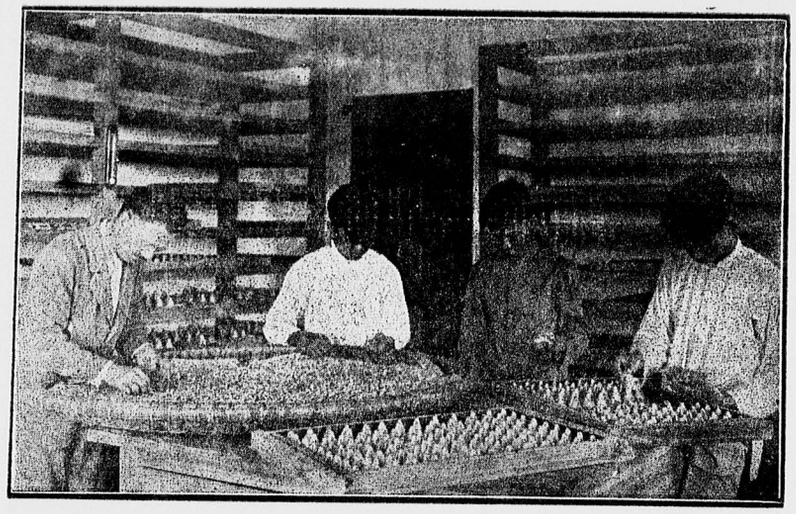
THE CANTON CHRISTIAN COLLEGE has an ideal location and excellent facilities for the work which is offered in the College of Agriculture. It is situated just within the tropics, in the heart of the great Canton Delta, famous throughout the world for its intensive agriculture; within this are grown a wide range of sub-tropical and temperate plants. The College is also in close proximity to the wonderful markets of Canton, where are found in season a wide variety of products of this and other provinces.

The College has a campus of about three hundred acres, over one hundred and fifty of which are devoted to modern farming, landscape gardening, market gardening, fruit culture, grain growing, dairying, stock-raising, etc.. The remainder of the campus is devoted to buildings and layout of grounds, on which will be found a large selection of native and foreign trees and shrubs. In the immediate vicinity of the College are the farms of scores of villages, which devote themselves almost entirely to agricultural pursuits. The Kwangtung Agricultural Experiment Station, with more than sixty acres of land, is directly across the river from the College and is easily accessible. The agricultural staffs of the two institutions are in close touch with each other and co-operate in various undertakings.

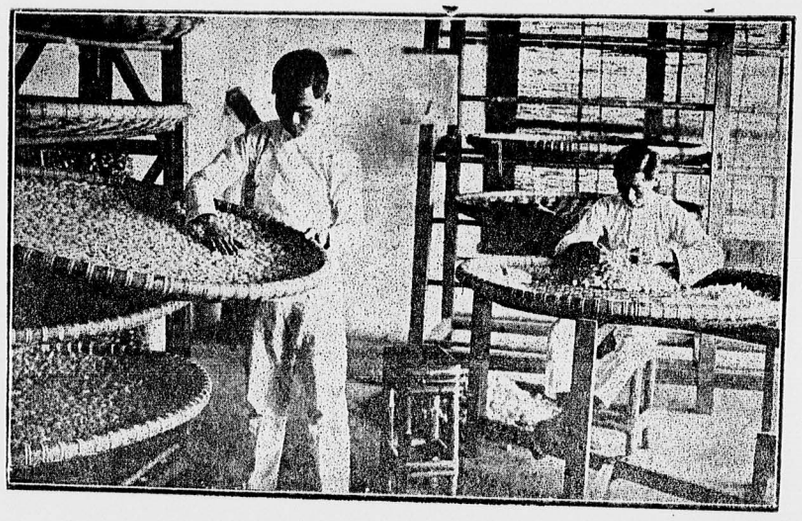
The College of Agriculture is an integral part of the proposed Kwangtung University. In the year 1921-1922 a liberal appropriation for current expense and permanent investment was made by the Provincial Kwangtung Government. This has made possible a more rapid development of the agricultural work.

The College of Agriculture is also in co-operation with the United States Department of Agriculture and with the government of the Philippines in scientific work. Important agricultural investigations are being carried on. The agricultural staff of the College is also directly associated with several state agricultural institutions in the United States. These connections offer to faculty and students every facility for keeping in touch with the most advanced methods of agriculture and for transmitting from one country to the other desirable agricultural practices.

The College Library contains more than four hundred well-selected books on agriculture and related subjects; files of the bulletins and reports of the United States Department of Agriculture and of



SELECTING MOTHS FOR EGG LAYING



SORTING COCOONS

RESEARCH WORK IN SERICULTURE

various Agricultural Experiment Stations and colleges of the United States and other countries; and files and current numbers of the following journals on agriculture:—

Agricultural Index, Agricultural Journal of India, Agricultural Gazette of New South Wales, Agricultural News (West Indies), Botanical Abstracts, Bulletin Agricole de l'Institut Scientifique de Saigon, Experiment Station Record, Journal of Forestry, Journal of Agricultural Research, Journal of Agricultural Science, Journal of Dairy Science, Journal of American Veterinary Medical Association, Mededeelingen van de Landbouhoogeschool en van de Daaraan Verbonden Instituten (Dutch), Philippine Agricultural Review, Philippine Agriculturalist, Soil Science, and World Agriculture.

The Library also has on file the following scientific journals related to agriculture:—

Annals of Applied Biology, Botanical Gazette, Bulletin of Entomological Research, Journal of Bacteriology, Journal of Biological Chemistry, Journal of Ecology, Journal of Experimental Zoology, Journal of Heredity, Journal of Home Economics, Journal of Genetics, Philippine Journal of Science, Physiological Reviews, and Review of Applied Entomology.

In addition to the above technical and scientific publications, the Library includes a number of farm periodicals and live stock breeding association herd books and journals.

In some cases the files of these publications are complete, while in other cases they are complete since 1910.

In order to be eligible for the degree of Bachelor of Science in Agriculture, the student must present at least the following credits in prescribed subjects:

Biology		20 credits
Chemistry		26 ,,
Composition in Chinese		8 ,,
Economics		2 ,,
English		6 ,,
Religion		8 ,,
Agricultural Subjects		
Agronomy	28	
Animal Husbandry	6	
Horticulture	8	
Farm Experience	4	
Agri'l Electives	12	58 ,,
Total Prescribed		128 ,,

General Statement of Courses

THE COLLEGE OF AGRICULTURE offers three types of courses:

1. Course leading to the degree of Bachelor of Science in Agriculture.
2. One Year Course in General Agriculture.
3. Six Months Course in Sericulture.

The prerequisites to the course for a degree are given on page 49 of this catalogue and entrance requirements appear on page 27. General information about required and elective courses is found on page 47. The entrance requirements for the one year course in agriculture shall be a middle school certificate or its equivalent, which presupposes the ability to read and write both English and Chinese. The six months course in Sericulture presupposes ability to read and write Chinese.

The detailed outline of the courses in the College of Agriculture are for the present all listed in one group, but have been chiefly classified under the following five heads: Agricultural Manufacturing, Agronomy, Animal Husbandry, Horticulture and Sericulture. These include only those subjects offered in the four year and one year courses. All one year courses are prefixed by the letter "Y", and all summer courses by the letter "S."

The One Year Course in Agriculture

For those who because of financial or other reasons cannot take the full four year course in agriculture, a special one year course is provided. The attempt is to give the student as thorough practical and technical training as is possible in one year.

The course should train students especially for positions as farm managers, for agricultural investigations or extension work, and for positions as teachers of agriculture in lower schools.

A certificate showing that the one year course in agriculture has been completed will be granted students who successfully finish this course.

In case a student who has completed the one-year course in agriculture wishes later to take the full four years of collegiate work towards a Bachelor's degree in Agriculture, the following substitutions may be made for full college credit, providing the entrance requirements to the four-year course have been fulfilled.

Animal Husbandry Y6 for Animal Husbandry 1.
Animal Husbandry Y8 for Animal Husbandry 14.
Horticulture Y6 for Horticulture 11a.
Agronomy Y6 for Agronomy 45.
Horticulture Y8 for Horticulture 15.

Two-thirds college credit will be allowed in the following substitutions:

Animal Husbandry Y7 for Animal Husbandry 31.
Horticulture Y7a-b for Horticulture 31a-b.

The Six Months Course in Sericulture

This course is primarily designed to train men to become high class silk worm egg producers. Most of the work is of a practical nature and trains the student to rear silk worms according to modern scientific methods, and to produce disease-free silk worm eggs. Sufficient instruction in botany, zoology and general agriculture is given to enable the student to grasp the reasons for the application of scientific methods. Considerable attention is also given to mulberry culture. A summary outline of the subjects offered in this course is tabulated on page 99. For further details address Sericulture, College of Agriculture, Canton Christian College, Canton, China.

Additional information about the buildings used, the equipment, and the aim and scope of the courses in Sericulture is given on a later page, under the heading "Sericulture."

SUMMARY OF COURSES

Four Year Group

(Minimum 16, †Maximum 23 credit-hours)

Year	Semester I		Semester II	
	Subjects	Credits	Subjects	Credits
Freshman	*Composition in Chinese 1a	2	*Composition in Chinese 1b	2
	English 2a	3	English 2b	3
	Chemistry 1a	6	Chemistry 1b	6
	Biology 2	4	Biology 3	4
	Animal Husbandry 1	3	Agronomy 1	3
		18		18
Sophomore	Chemistry 12	6	Chemistry 14	4
	Horticulture 11a	3	Horticulture 11b	3
	Agronomy 45	3	Animal Husbandry 13	3
	Biology 12	3	Horticulture 15	2
		15	Biology 14	3
				15
	Agricultural Electives:		Agricultural Electives:	
	Animal Husbandry 11	3	Horticulture 18	3
	Animal Husbandry 12	1	Animal Husbandry 14	3
	Horticulture 12	3		
Junior	*Religion	2	*Religion	2
	Chemistry 45	4	Biology 31b	3
	Biology 31a	3	Agronomy 31b	3
	Agronomy 31a	3	Agricultural Economics	2
		12	Agronomy 41 3	
			or Animal Husb'y 35 2	
				12 or 13
	Agricultural Electives:		Agricultural Electives:	
	Horticulture 31a	3	Horticulture 31b	3
	Animal Husbandry 31	3	Chemistry 47	4
	Agronomy 46	3	Animal Husbandry 32	3
Senior	*Composition in Chinese 11a	2	*Composition in Chinese 11b	2
	*Religion	2	*Religion	2
	Agronomy 33	3	Agronomy 34	3
	Agronomy 37a	2	Agronomy 37b	2
	Agronomy 49	3	Agronomy 50	3
		12		12
	Agricultural Electives:		Agricultural Electives:	
	Agricultural Manufacturing 31	3	Horticulture 32	3
	Biology 33	2	Horticulture 36	3
	Animal Husbandry 47	3	Sericulture 31	3

NOTES: *Eight credits in Religion and eight in Chinese are required for a degree. These subjects may be taken at other times than indicated in the above outline.

†The Maximum depends on standing. See rule on page 31.

SUMMARY OF COURSES

One Year Course

(Minimum 16, Maximum 23 credit-hours)

Semester I		Semester II	
Subjects	Credits	Subjects	Credits
Animal Husbandry Y6	3	Agronomy Y7	5
Horticulture Y6	3	Horticulture Y8	3
Horticulture Y7a	3	Horticulture Y7b	3
Animal Husbandry Y7	3	Animal Husbandry Y8	3
Agronomy Y6	3	Agronomy Y8	3
Religion Y6	1	Chinese Y6b	1
Chinese Y6a	1		18
	17		

Six Months Sericulture Course

Subjects	Hours per week	No. of months	Subjects	Hours per week	No. of months
Zoology	5	1	History of sericulture	3	1
Botany	5	1	Preparation of raw silk	2	1
General Agriculture	5	1	Manufacture of silk	1	1
Anatomy and Physiology of Silk Worms	3	1	Mulberry culture	5	1
Heredity and Breeding	2	1	Practical work in silk worm rearing	10	6
Microbiology	5	1	Practical work in mulberry culture	10	6
Methods of rearing silk worms	5	1			

COURSES OF STUDY IN DETAIL

AGRICULTURE

s1. Summer Course in Agriculture. This course is especially planned for rural pastors and teachers. Special lectures on various agricultural subjects will be given. In the laboratory period observation trips about the college farm and other farms are made, and for a part of the time the students are given work in the gardens and fields in order to be able to better understand the farmers' problems.

Ten lectures and four two-hour laboratory periods during summer session.

11. Farm Experience. A first hand knowledge of farm conditions and farm work is essential to the development of the fullest efficiency of those intending to do work along agricultural lines. For this reason a minimum of two months of actual farm experience is required of all agricultural students qualifying for a degree. This work should be carried out during vacation periods and must be completed before the student registers for his senior year. For those qualifying for a junior certificate in agriculture, one month of such work, completed before the student registers for his second year, is required.

4 credits toward the degree; 2 credits toward junior certificate.

31. Special Problems in Agriculture. In this course the student is given work on special problems in which he is most interested. The work is assigned. The course is only open to advanced students. Work may be done either semester or during the summer. The amount of credit depends upon the work accomplished.

AGRICULTURAL MANUFACTURING

Professor P. K. Fu

31. Canning and Preserving. A practical course in canning and preserving garden and orchard products. Elective.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

AGRONOMY

Mr. Edward Shim. Mr. F. Kan; Professor C. O. Levine

1. Garden, Orchard, Field Crops and Soils. An introduction to the growing of different garden, orchard and field crops and general study of soils.

Class-room 2 hours, laboratory 3 hours (3 credits); one semester.

y6. Field Machinery. Proper adjustment, repair, care and operation of field machinery.

Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

y7. General Farm Crops and Soil Management. Grain, fiber, forage, root and tuber crops and soil management for these crops.

Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

y8. General Farm Management and Marketing.

Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

31a-b. Farm Crops: Cereals, Grasses, Fiber and Root Crops. A study of cereals, grasses and fiber crops adapted to this region. These crops will be considered from the point of view of grain, forage and fiber production. Required of all agricultural students.

Class-room 2 hours, field work 2 hours (3 credits); two semesters.

33. Soil Physics. Microscopic study of soil particles, taking soil samples; determination of capillary moisture; influence of color on soil temperature; variation of soil temperature at different depths; the absorption of heat by soils; the effect of lime upon soil; determination of the weight of soil per acre; effect of humus on the water-holding capacity of soils; rate of rise of capillary water from soils; the effect of organic matter on the baking of soil. Mechanical analysis of soils. Agronomy 33 and 34 are required of all students.

Lyon, Fippin and Buckman: Soil Physics.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

34. Soil Fertility. The study of food combinations of plants; the effect of different crops and different systems of farming

upon the depletion of soil fertility; the proper methods of handling, preserving, and applying barnyard manure and night soil; the determination of the needs of soil for commercial fertilizers and the kind of fertilizers to apply. Prerequisities: Chemistry 12 and Agronomy 33.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

37a-b. IRRIGATION AND DRAINAGE. Irrigation water supply; construction of canals, reservoirs and ponds; pipe lines. Methods of applying water to various crops. Drainage, rainfall and evaporation; advantage and methods of draining retentive soils. Farm mechanics. Pumps, devices and appliances used in irrigating; making tile drains, etc.. Required of all agricultural students.

ELLIOTT: Practical Farm Drainage.

Class-room 1 hour, field work 2 hours (2 credits); two semesters.

41. PLANT BREEDING. The dependence of man upon domesticated and cultivated plants; the origin of domesticated plants from the wild; effect of natural selection; unit characters; variability of single characters; transmission of characters; heredity and environment; systematic improvement of plants. The work on the papaya and rice being carried out on the campus offers ideal facilities in plant breeding. Required of students who do not take Animal Breeding.

Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

45. FARM EQUIPMENT. The mechanical principles of different types of farm machinery, and their proper adjustment. Required of all agricultural students.

Class-room 2 hours, field and laboratory 2 hours (3 credits); one semester.

46. STATIONARY EQUIPMENT. Special attention to stationary machinery, such as grinding and pumping machinery, and engines. The construction of farm machinery, and the grinding and repairing of tools is taken up in the laboratory. Prerequisite: Farm Equipment 1. Elective.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

49. GENERAL FARM MANAGEMENT. The purpose of this course is to assemble and correlate the principles involved in the agricultural courses taught in the institution, paying special attention to

types of farming, labor questions and farm accounting. Required of all agricultural students.

WARREN: Farm Management.

Class-room 2 hours, practical work 2 hours (3 credits); one semester.

50. MARKETING. Factors essential to successful marketing of all kinds of farm produce; cooperative marketing, cold storage, proper packing for transportation, etc.. Required of all agricultural students.

Class-room 3 hours, (3 credits); one semester.

Animal Husbandry

PROFESSOR C. O. LEVINE; MR. P. S. CHUNG;
MR. W. L. FUNKHOUSER.

THE COURSES in Animal Husbandry are so arranged as to give the student special instruction in the selection, breeding, feeding, marketing and management of all kinds of live stock. Attention is given to sanitation and the treatment of the more common forms of diseases to which animals are subject. The student is taught to study the animal from the standpoint of the breeder and the feeder. The college live stock includes poultry, hogs, buffalo both for milk and draft purposes, horses, dairy cows and milk goats. A model dairy of forty-five buffalo, pure breed cows and goats supplies milk to the community. The management of this dairy offers practical demonstration to students interested in dairying.

ANIMAL HUSBANDRY 11, 13, 14, 31 AND 35 are required of all students specializing in Animal Husbandry; 13 is required of all agricultural students; and Y6, Y7 and Y8 are offered for students taking the one-year course in agriculture.

1. FARM ANIMALS. An introduction to the courses in poultry and live stock. The aim is to give the student acquaintance with the more common breeds and varieties of animals, and provide practice in judging, feeding and management.

HARPER: Animal Husbandry for Schools.

Lectures 2 hours, laboratory 2 hours (3 credits) one semester.

Y6. A GENERAL STUDY OF FARM LIVESTOCK. Study of breeds, judging, feeding and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y7. DAIRYING. Dairy feeding and management.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y8. POULTRY PRODUCTION. General problems in poultry raising; including incubation, housing, feeding, general management and study of breeds.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

11. STOCK JUDGING. Judging of horses, beef cattle, water buffalo, hogs and general study of breeds of live stock.
GAY Principles and Practice in Live Stock Judging.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

12. MEATS. Killing, dressing and curing of beef, pork, mutton and poultry. Prerequisite: Animal Husbandry 1. Lectures, supplemented with bulletins.
Lecture 1 hour, laboratory 2 hours (2 credits); one semester.

13. PRINCIPLES OF FEEDING. The digestive system and the process of nutrition; theory of practical economy of rations for maintenance and fattening of all classes of animals. Practical training is given the student in feeding live stock owned by the College. Lectures and supplementary reading.
HENRY AND MORRISON: Feeds and Feeding (abridged edition).
Lectures 2 hours, laboratory 2 hours, (3 credits); one semester.

14. POULTRY PRODUCTION. General problems of poultry raising including incubation, housing, etc.. The field work consists of the actual care of flock by the students, under the supervision of an instructor. Lectures and supplementary reading.
LIPPINCOTT: Poultry Production.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31. DAIRYING. Dairy live stock judging and dairying; sanitation and live stock buildings.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

32. DAIRY MANUFACTURING. This course includes the manufacturing of cream, butter, cheese, condensed milk, ice-cream and other dairy products; marketing; and laboratory study of the bacteria related to dairy manufacturing. Prerequisites: Animal Husbandry 31 and Biology 12.
Lectures 2 hours, laboratory 3 hours (3 credits); one semester.

35. ANIMAL BREEDING. Origin of domesticated animals; natural selection; unit characters, variability; transmission of characters; heredity; environment; systematic improvement of animals; breed associations; breeding records; and the value of pedigreed stock. Required of students specializing in Animal Husbandry. Prerequisites: Biology 2 and 3, Animal Husbandry 1 and 31.
2 hours; one semester.

47. DISEASES OF FARM ANIMALS. Common diseases of farm animals. The subject includes wounds and their treatment, examination of animals for diseases, diagnosis and treatment of diseases; practice of castration, spaying, and caponizing; instruction in obstetrics, care of mother at parturition and diseases affecting mother and offspring. Microscope studies in the laboratory are made of the organisms and parasites associated with diseases. Sanitation, and other measures necessary for the prevention of diseases. Prerequisite: Animal Husbandry 1. Supplementary reading is required.
CRAIG: Common Diseases of Farm Animals.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

BIOLOGY

PROFESSOR C. W. HOWARD; MR. K. P. BUSWELL;
MR. A. S. CAMPBELL

THE BIOLOGICAL DEPARTMENT serves both the College of Arts and Sciences and the College of Agriculture. Students in Agriculture may elect courses in Biology besides those which are required, with the approval of their advisor.

2. BOTANY. Prescribed for all students in the College of Agriculture. For details see page 58.
Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

3. ZOOLOGY. Prescribed for all students in the College of Agriculture. For details see page 58.
Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

12. AGRICULTURAL BACTERIOLOGY. The nature of bacteria; fermentation; relation of bacteria to the origin of soil. The transformation of carbon and nitrogen; the manure heap and sewage;

reclaiming lost nitrogen; relation of bacteria to the dairy and its products; relation of bacteria to miscellaneous farm products; parasitic bacteria.

CONN: Agricultural Bacteriology.
Lecture 1 hour, laboratory 4 hours (3 credits); one semester.

14. PLANT PHYSIOLOGY. Lectures and readings on the growth, nutrition, irritability, reproduction and variation of plants, combined with laboratory work. Prerequisite: Biology 2.

COULTER, BARNES AND COWLES: Textbook of Botany, Vol. I.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31a-b. ECONOMIC ZOOLOGY. A study of the forms of animal life harmful to or beneficial to man, his crops and domestic animals. Prerequisite: Biology 2 and 3.
Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

33. PLANT PATHOLOGY. A consideration of the bacteria and fungi which attack cultivated crops as well as other causes of plant diseases. Prerequisites: Biology 2, 3 and 12.
Lecture 1 hour, laboratory 4 hours (3 credits); one semester.

CHEMISTRY

PROFESSOR C. N. LAIRD; ASSISTANT PROFESSOR CHIU YAN TSZ; MR. H. W. HOUSE

THE DEPARTMENT of Chemistry serves the College of Agriculture as well as the College of Arts and Sciences. Students in Agriculture may elect courses in addition to those below which are prescribed, with the approval of their advisor, provided they have the prerequisites.

1a-b. GENERAL INORGANIC CHEMISTRY. Prescribed for all Freshmen. See page 68 for details.
Lectures 3 hours, laboratory 6 hours (6 credits); two semesters.

12. ANALYTICAL CHEMISTRY. Prescribed for all Sophomores. See page 68 for details.
Lectures 2 hours, laboratory 9 hours (6 credits); one semester.

14. ELEMENTARY ORGANIC CHEMISTRY. Prescribed for all Sophomores. See page 68 for details.
Lectures 3 hours, laboratory 3 hours (4 credits); one semester.

45. AGRICULTURAL CHEMISTRY. Treated chiefly from the organic and bio-chemical side. Factors which influence the composition and feeding value of crops: crop rotation; chemistry of plants and animals; chemical analysis of soils, fertilizers and farm products. Prescribed for all Juniors. Prerequisite: Chemistry 14. Laboratory fee: $10.00.

STODDART: Chemistry of Agriculture.
Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

47. FOOD ANALYSIS. See page 70 for details.
Lecture 1 hour, laboratory 6 hours (4 credits); one semester.

COMPOSITION IN CHINESE

MR. CHAN SHAU YI; MR. CHEN SHAO SHUN

1a-b. Prescribed for all Students. For details see page 72. In addition to the regular class room work, Agricultural students are encouraged to collect material in English and prepare in Chinese talks and addresses on topics related to their work to be delivered in the class room and elsewhere as occasions offer in connection with the extension work of the College of Agriculture. Students find expression for their best translated and original productions through the agricultural publications of the College and the *Naam Taai Magazine*.
2 hours; two semesters.

Y6a-b. This course is designed to acquaint the students with Chinese agricultural literature and technical terms. Compositions in Chinese on agricultural subjects are required.
1 hour; two semesters.

11a-b. This course, also prescribed for agricultural students, is a continuation of course 1.
2 hours; two semesters.

ECONOMICS

31. AGRICULTURAL ECONOMICS. A brief introduction to elementary economic theory, followed by a study of some problems of agriculture in their economic aspects, emphasizing conditions in China. Some topics considered are: the statistics of the world's agricultural geography, resources, products and trade; crop yields and prices; agricultural enterprise and farm organizations; standardization

of agricultural products; co-operative associations; markets and marketing methods; farm incomes and farm cost accounting; land tenure; rural credit; colonization projects; agricultural legislation and agrarian policies.

TAYLOR: Agricultural Economics, and syllabi.
Readings in NOURSE: Agricultural Economics, and other source materials.

2 hours; one semester.

ENGLISH

ASSOCIATE PROFESSOR J. C. GRIGGS; MR. CHAN SHAU YI

2a-b. ENGLISH COMPOSITION. Prescribed for all Freshmen. See page 79 for details.

3 hours; two semesters.

HORTICULTURE

PROFESSOR G. W. GROFF; MR. CHEUNG CHEUK KWAN; MR. F. A. MCCLURE

THE COURSES in horticulture are so arranged as to give the student instruction in growing and marketing vegetables, flowers and fruits. A wealth of illustrative material for the classes in horticulture is found in the large collection of foreign and native species growing upon the College campus, in the lychee and citrus orchards to the south of the College, in the extensive vegetable gardens close at hand, and in the commercial flower gardens at Fati. Each student is required to maintain a garden of his own where he can put into practice the ideas received. Agronomy 1 serves as an introduction to the courses in horticulture.

All Agricultural students are required to take Horticulture 11 and 15. All students specializing in Horticulture are required to take Horticulture 12, 31 and 32. Students other than those specializing in Horticulture may take Horticultural courses as electives.

Y6. VEGETABLE CULTURE. Fundamentals of vegetable culture; propagation; cultural methods; insect and disease control; marketing.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y7a-b. FRUIT CULTURE. Fundamentals of fruit growing; culture; propagation; fertilization; pruning; orchard planting; insect and disease control; marketing. Special emphasis on tropical and sub-tropical fruits.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

Y8. GENERAL FORESTRY MANAGEMENT. Forestry methods; study of trees for forestry planting and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

11a-b. VEGETABLE CULTURE. The problems and possibilities of the market garden, the necessary soil requirements and sanitary methods of applying fertiliers; methods of starting early fall vegetables, by protecting the seedling from the intense heat of late summer, form a prominent place in the course. Systems of cropping; methods of tilling; irrigating; grading, packing and marketing. Bulletins and reference work.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

12. FLORICULTURE. A practical course in flower gardening. The aim of the course is to train students in the selection and care of flowers and plants for the home and garden. Methods of propagating, potting and planting are taught in the laboratory. Students other than those studying agriculture may elect this course.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

15. DENDROLOGY. A study of trees and shrubs in the vicinity of the college with a view to identification under fall and winter conditions. Students other than those studying agriculture will find this a useful course.

Lecture 1 hour, field 2 hours (2 credits); one semester.

18. LANDSCAPE GARDENING. This course gives to the student an idea of some of the requirements for beautifying homes and parks by the proper planting of flowers, trees and shrubs. The various characteristics of plants are studied, with their grouping. Students are given some practice with the transit and level in the laying out walks, etc. Planting plans are required in field work.

WAUGH: Landscape Gardening

Lecture 1 hour, field 2 hours (2 credits); one semester.

31a-b. General Fruit Culture. The problems and po sibilities of fruit growing and fruit marketing; soil requirements and fertilization; the natural methods of propagation; production of seedlings for stock; grafting, budding and layering; the making of cuttings; special requirements for propagating and growing commercial fruits.

Lectures 2 hours, field work 2 hours (3 credits); two semesters.

32. Fruit Culture. A more specialized course in fruit growing, with special reference to the lychee and lungan, the citrus fruits and the papaya. A analytical study of the *Sapindaceae* and *Rutaceae* families of plants is conducted with the object of enabling the student to classify properly the fruits of these families, and of showing the student the possibilities of using the near and wild relatives of these fruits in propagating and hybridizing. A study of varieties is included. Low-land fruit culture as practised in the delta regions of Kwangtung compared to hill culture as practised in the United States.

Lectures 1 hour, field work 4 hours (3 credits); one semester.

36. Forest Practice. Propagation of forest trees; nursery methods and practices; the cultivation of wind breaks. Forest protection, etc. Bulletins and reference reading.

Lectures 2 hours, field 2 hours (3 credits) ; one semester.

RELIGION

Professor A. Baxter.

Students may meet the requirement in Religion by electing from among the following courses, described on pages 91 and 92, offered the students in the College of Arts and Sciences.

1. Christian Ethics.
3a-b, Comparative Religion.
5a-b, Old Testament History.
11, Christian Apologetics.
13, The Person of Jesus Christ.
31a-b, Religious History of China.

Y6. This course consists of a study of the relation of man to God as manifested in agricultural service.

1 hour; one semester.

SERICULTURE

Professor C. W. Howard; Mr. K. P. Buswell

For the work in Sericulture two large brick buildings have been provided. One is the gift of The Silk Association of America and is used as a rearing house and laboratory; the other is the gift of Mr. Marcus Frieder, The General Silk Importing Company, New York City, and is a dormitory for short course students. The buildings are well equipped for teaching modern scientific methods in rearing and caring for silk worms and their products; and especially for the production of disease-free silk worm eggs or "seed".

In addition to the regular college course in Sericulture arrangements can be made for advanced courses of study. Special emphasis is given to short courses for farmers. A small model farm house for rearing silk worms makes it possible to demonstrate better methods under conditions normal to the farmer. The production of silk worm egg-sheets on a commercial scale is a special feature of the work. These are marketed to the farmers. Extension work is also carried on among those needing instruction in rearing their worms.

There are also extensive mulberry fields and ample opportunity for instruction in mulberry culture and for experimental work on this crop in its relation to the production of silk.

31. The methods of producing silk in China and other countries. A study of the silk worm, its morphology, life history, diseases, and enemies. Prerequisites: Biology 2 and 3.

Commencement Honors

June 17, 1921

Degrees Awarded

BACHELOR OF ARTS

郭琳爽 Kwok Lam Shong
梁就明 Leung Tsau Ming, Miss
王吉兆 Wong Kat Chiu

One Year Junior Certificates Awarded

歐陽錫廉 Au-yeung Sik Lim
陳艷容 Chan Im Yung, Miss
陳榮捷 Chan Wing Tsit
陳元素 Chan Yuen So, Miss
周學棠 Chau Hok Tong
章履剛 Cheung Lui Kong
朱 則 Chue Chaak
鍾 肯 Chung Hang
鍾金陵 Chung Kam Ling
何啓明 Hoh Kai Ming
何樹昌 Hoh Shue Cheung
何汝調 Hoh Yue Tung
葉大貞 Ip Taai Ching
江譽題 Kong Yue Tai
關文傑 Kwaan Man Kit
林遂意 Lam Sui Yi, Miss
劉燿樞 Lau Iu Shue
劉國璇 Lau Kwok Shuen
劉靜明 Lau Tsing Ming, Miss
李啓榮 Lei Kai Wing
李文錫 Lei Man Sik
李蕙馨 Lei Wai Hing, Miss
梁仲英 Leung Chung Ying
廖奉景 Liu Fung King, Miss
廖奉靈 Liu Fung Ling, Miss
羅孝明 Loh Hau Ming
羅和平 Loh Woh Ping, Miss
雷澤榴 Lui Chaak Lau
梅植生 Mui Chik Shang
梅榮輝 Mui Wing Fai
梅奕強 Mui Yik Keung
吳求哲 Ng Kau Tsit
伍榮大 Ng Wing Taai
鮑金麒 Paau Kam Kei
潘汝桐 Poon Yue Tung
冼玉清 Sin Yuk Tsing, Miss
唐漢基 Tong Hon Kei
唐逸卿 Tong Yat Hing, Miss
曾恩濤 Tsang Yan To
謝天錫 Tse Tin Sik
溫婉恩 Wan Yuen Yan, Miss
黃振權 Wong Chan Kuen
黃廷凱 Wong In Hoi
黃燿瓦 Wong Iu Leung
王觀慈 Wong Kan Tsz
黃安福 Wong On Fuk
黃葡生 Wong Po Shang
黃榮韶 Wong Wing Chiu
丘蘭秀 Yau Laan Shau
楊善美 Yeung Shin Mei
楊煒樞 Yeung Yuk Shue

Honor Certificates Awarded

Chan Man Chue 陳文駐
Chue Yau Kwong 朱有光
Ip Leung Tsoi 葉亙才
Kwok Lam Shong 郭琳爽
Lam Paak Shang 林柏生
Lei Yeung On 李揚安
Liu Fung King, Miss 廖奉景
Sz-to Fai 司徒輝
Taam Cheuk Woon 譚卓垣

Prizes Awarded

HONOR PRIZE: 朱有光 Chue Yau Kwong
COLES MATHEMATICS PRIZE: 林柏生 Lam Paak Shang
COLES SCIENCE PRIZE: 李揚安 Lei Yeung On
ATHLETICS PRIZE: 廖作燊 Liu Tsok San
CHAMBERS' PRIZE IN
CHINESE COMPOSITION: 甘乃光 Kam Naai Kwong
CHINESE TEACHERS' PRIZE IN
CHINESE COMPOSITION: 譚卓垣 Taam Cheuk Woon
ENGLISH PRIZE: 朱有光 Chue Yau Kwong

Graduates of Canton Christian College

Chan Shau Yi, B.A., 1920. Instructor in Chinese Literature, Canton Christian College, Canton.

Chan Ting Hoi, B.A., 1918. Social Secretary, City Y. M. C. A. Canton. 香山石岐梅基二號

Hoh Hung Ping, B.A., 1920. Principal, Tung Chi School, Canton. 本市東山龜岡十九號二樓或東山培正學校

Kwok Lam Shong, B.A., 1921. Wing On Company, Hongkong.

Lau Kai Tso, B.A., 1920. Graduate Student in America. Address: 205 Linden Ave., Ithaca, New York.

Lei Yue Kim, B.A., 1918. Student in America. Address: Room 305, 2 Rector St., New York City.

Leung Tsau Ming, (*Miss*) B.A., 1921. Graduate Student in America. Address: 1311 Wilmot St., Ann Arbor, Michigan.

Lo Ka Ping, B.A., 1918. Teacher, Pui Ching Academy, Canton.

Wong Kat Chiu, B.A., 1921. Wing On Company, Hongkong.

Yeung Kwok Tsuen, B.A., 1920. Principal Primary School, Canton Christian College, Canton.

Register of Students.

1921-22

College of Arts and Sciences

In the following register, the names are spelled according to the standard Cantonese romanization. The rank is that attained by the student at the beginning of Semester I, or on entrance. Se=Senior (100 credits or more), Ju= Junior (65 to 99 credits), So = Sophomore (30 to 64 credits), Fr = Freshman (less than 30 credits), Su = Sub-freshman (of sub-collegiate grade). Under "Sessions," "S" indicates the student was enrolled in the Summer Session, "1" in First Semester and "2" in Second Semester.

Name	*Original District*	*Rank*	*Sessions*	*Home Address*
區 譽 Au King	順德	Fr	1,2	Hongkong
區文鍊 Au Man Lin	番禺	Su	2	Canton
區煒彬 Au Wai Pan	新會	Fr	1,2	Hongkong
歐陽錫濂 Au-yeung Sik Lim	香山	So	1,2	Heung Shan
陳簡卿 Chan Kaan Hing, Miss	南海	Su	S	Hongkong
陳禮康 Chan Lai Hong	順德	Fr	S,1,2	Hongkong
陳其芬 Chan Kei Fan	寶安	Ju	1,2	Po On
陳文駐 Chan Man Chue	台山	Se	S,1,2	Heung Shan
陳受康 Chan Shau Hong	番禺	Su	1,2	Canton
陳受榮 Chan Shau Wing	番禺	Su	1,2	Canton
陳爵樑 Chan Tseuk Leung	南海	Fr	S,1,2	Macao
陳榮捷 Chan Wing Tsit	開平	So	1,2	Hoi Ping
陳榮枝 Chan Wing Chi	台山	Su	1,2	Hongkong
陳榮順 Chan Wing Shun	厦門	Sp	2	Singapore
陳爾矜 Chan Yi Kam	新會	Su	1,2	Oi Hoi
陳英德 Chan Ying Tak, Miss	新會	Su	S	Canton
陳汝湘 Chan Yue Seung	新會	Su	S	San Wui
陳元覺 Chan Yuen Kok	新會	Su	1,2	Canton
陳元素 Chan Yuen So, Miss	新會	So	1,2	Canton
周秉均 Chau Ping Kwan	番禺	Su	S,1,2	Naam Kong
鄭鳳桐 Cheng Fung Tung	東莞	Su	1	Canton
鄭連炬 Cheng Lin Kui	香山	Su	1,2	Heung Shan
鄭榮斌 Cheng Wing Pan	香山	Su	1,2	Hongkong
卓倩媛 Cheuk Sin Yuen, Miss	香山	Fr	S	Macao
張金德 Cheung Kam Tak	四會	Su	1,2	Sumatra

章履剛	Cheung Lui Kong	番禺	So	1,2 Canton
張文甲	Cheung Man Kaap	梅縣	Su	S Kaying
張明照	Cheung Ming Chiu, Miss	厦門	Fr	1,2 Balei, D.E.I.
張明采	Cheung Ming Chue, Miss	厦門	So	1,2 Balei, D.E.I.
張德仁	Cheung Tak Yan	番禺	Fr	1,2 Honam
趙子儀	Chiu Tsz Yi	新會	Su	S,1 San Wui
朱有光	Chue Yau Kwong	新會	Ju	S,1,2 Canton
朱 則	Chue Chaak	台山	So	1,2 San Wui
鍾景華	Chung King Wa	瓊州	Su	1,2 Haiphong
鍾 利	Chung Lei	新會	Su	1,2 Hongkong
馮麗榮	Fung Lai Wing, Miss	新會	Se	1,2 Honam
馮瑛玉	Fung Leung Yuk, Miss	南海	Fr	S,1,2 Hongkong
馮茂松	Fung Mau Tseung	萬寧	Su	S Naam Hoi
馮成功	Fung Shing Kung	南海	Su	1,2 Canton
馮肇昌	Fung Shiu Cheung	鶴山	Su	1,2 Honam
格禮羅	Griggs, Eleanor, Miss		Sp	1,2 Canton
何學敏	Hoh Hok Man	番禺	Su	S,1,2 Sha Wan
何鴻錦	Hoh Hung Kam	香山	Fr	1,2 Siu Lam
何連貴	Hoh Lin Kwai	香山	Su	1,2 Hongkong
何連爵	Hoh Lin Tseuk	香山	Fr	1,2 Hongkong
何伯驌	Hoh Paak Foon	南海	Sp	2 Hongkong
何世光	Hoh Shai Kwong	番禺	Fr	1,2 Canton
何兆榮	Hoh Shiu Wing	番禺	Sp	1 Hongkong
何樹昌	Hoh Shue Cheung	南海	So	1,2 Naam Hoi
何蔭棠	Hoh Yam Tong	順德	So	S,1,2 Canton
許順堯	Hui Shun Iu	新會	Su	S,1,2 San Wui
許德沛	Hui Tak Pui	台山	Fr	1,2 San Wui
葉 根	Ip Kan	鶴山	Su	1,2 Fatshan
葉瑛才	Ip Leung Tsoi	梅縣	Fr	1,2 Bangkok, Siam
葉大貞	Ip Taai Ching	南海	So	1 Hongkong
葉大本	Ip Taai Poon	鶴山	Su	1,2 Hongkong
葉 梯	Ip Tai	鶴山	Su	1,2 Fatshan
葉贊鏢	Ip Tsaan Piu	博羅	Su	1,2 Canton
饒世勳	Iu Shai Fan	曲江	Su	1,2 Macao
簡任千	Kaan Yam Tsin	新會	Su	S,1,2 San Wui
甘乃光	Kam Naai Kwong	岑溪	Se	1,2 Sam Kai, Sai
甘懷傑	Kam Wai Kit	寧明	Su	1,2 Ling Ming Yuen, Sai
高廷梓	Ko Ting Tsz	新會	Se	1,2 San Wui
江耀彰	Kong Iu Cheung	寶安	So	2 Hongkong
江譽頤	Kong Yue Tai	南海	So	1,2 Honam
草野心平	Kusano, S.		Su	S,1,2 Tokyo, Japan

關文傑	Kwan Man Kit	番禺	So	1,2 Canton
關藝圃	Kwaan Ngai Po	開平	Su	1,2 Hoi Ping
郭開基	Kwok Hoi Kei	瓊州	Fr	1 Malacca, S.S.
郭文彬	Kwok Man Pan	揭陽	Se	1,2 Pontianak, West Borneo
郭棣活	Kwok Tai Woot	香山	Su	1,2 Heung Shan
鄺學餘	Kwong Hok Yue	台山	Su	1,2 Hongkong
鄺庚棠	Kwong Kang Tong	台山	Su	1,2 Hongkong
鄺美蘭	Kwong Mei Laan, Miss	台山	Su	S Honam
鄺靄文	Kwong Oi Man	台山	So	1,2 Sacramento, Calif., U.S.A.
黎本謙	Lai Poon Him	番禺	Fr	1 Canton
黎成材	Lai Shing Tsoi	貴縣	Se	1 Kwei Yuan, Sai
黎廷珪	Lai Ting Kwai	東莞	Su	1,2 Tung Koon
林景煒	Lam King Wai	香山	Su	1 Canton
林柏生	Lam Paak Shang	信宜	Fr	1,2 Sun I
林遂恩	Lam Sui Yan, Miss	新會	Fr	1,2 Hongkong
林遂意	Lam Sui Yi, Miss	新會	So	1,2 Hongkong
劉振英	Lau Chan Ying	香山	Ju	1,2 Heung Shan
劉耀樞	Lau Iu Shue	香山	So	1,2 Hongkong
劉亮璧	Lau Leung Pik	香山	Su	1,2 Heung Shan
劉慕貞	Lau Mo Ching, Miss	香山	Su	S Hongkong
劉滿光	Lau Moon Kwong	香山	Su	1,2 Heung Shan
劉樹柏	Lau Shue Paak	台山	Fr	1,2 Honam
李卓波	Lei Cheuk Poh	香山	Su	S,1,2 Heung Shan
李卓垣	Lei Cheuk Woon	香山	So	1,2 Heung Shan
李耀燊	Lei Iu San	東莞	Ju	1,2 Macao
李啓榮	Lei Kai Wing	新會	So	1 San Wui
李文錫	Lei Man Sik	香山	So	1 Heung Shan
李文華	Lei Man Wa	台山	Fr	1,2 Hongkong
李炳垣	Lei Ping Woon	台山	Su	1,2 Toi Shan
李 新	Lei San	台山	Su	1,2 Toi Shan
李雪鴻	Lei Suet Hung, Miss	番禺	Fr	S,1,2 Canton
李德銓	Lei Tak Tsuen	台山	Fr	1,2 Kong Moon
李 棠	Lei Tong	台山	So	1,2 Canton
李惠馨	Lei Wai Hing, Miss	新會	So	S,1,2 Fatshan
李威士	Lei Wai Sz	香山	Sp	1,2 Siu Lam
李任龍	Lei Yam Lung	惠陽	Su	1,2 Wai Yeung
李揚安	Lei Yeung On	台山	So	1,2 Hongkong
李苑生	Lei Yuen Shang	香山	Fr	S,1,2 Hongkong
李元燦	Lei Yuen Tsaan	香山	Su	1,2 Hongkong
梁仲英	Leung Chung Ying	番禺	So	1,2 Hongkong

梁孟齊	Leung Maang Tsai	新會	Fr	1,2	Canton
梁社乾	Leung She Kin	新會	Fr	2	Atlantic City, New Jersey, U.S.A.
廖奉靈	Liu Fung Ling, Miss	番禺	So	1,2	Canton
廖作燊	Liu Tsok San	台山	Ju	1,2	Canton
盧衡若	Lo Hang Yeuk	新會	Fr	S	Macao
盧德輿	Lo Tak Yue	新會	Fr	2	San Wui
羅劍泉	Loh Kim Tsuen	南海	So	S	Hongkong
羅作祥	Loh Tsok Tseung	南海	Fr	1,2	Honam
羅懷堅	Loh Waai Kin	番禺	Ju	1,2	Canton
羅英豪	Loh Ying Ho	番禺	Fr	1,2	Canton
雷文亮	Lui Man Leung	台山	Su	1,2	Canton
馬熾熏	Ma Chi Huen	台山	Su	1,2	Kowloon
馬顯榮	Ma Hin Wing	香山	Su	1,2	Hongkong
馬文輝	Ma Man Fai	香山	Su	1	Hongkong
麥應基	Maak Ying Kei	南海	Ju	S,1,2	Canton
梅熹交	Mui Hei Foo	台山	Su	S,1,2	Toi Shan
梅雪影	Mui Suet Hung, Miss	台山	Su	S	Canton
伍朝光	Ng Chiu Kwong	台山	Su	1,2	Toi Shan
伍耀祥	Ng Iu Tseung	台山	Su	S,1,2	Toi Shan
伍啓瑞	Ng Kai Sui	台山	Su	1,2	Toi Shan
吳求哲	Ng Kau Tsit	開平	So	1,2	Honam
吳景奇	Ng King Kei	南海	Ju	1,2	Fatshan
伍百勝	Ng Paak Shing	台山	Su	1,2	Canton
吳兆鏗	Ng Shiu Hang	南海	Fr	S,1,2	Honam
禰有恆	Nye Yau Hang	番禺	Se	S,1	Canton
彭文愷	Paang Man Hoi	新會	Su	S,1	Hongkong
鮑金麒	Paau Kam Kei	香山	So	1,2	Hongkong
幅　福	Refo, Henry B.		Sp	2	Canton
冼玉清	Sin Yuk Tsing, Miss	瓊海	So	1,2	Macao
蕭耀東	Siu Iu Tung, Mrs.	合浦	Fr	1	Hongkong
蘇士芹	So Sz Kan	新會	Su	1	Hongkong
係毅夫	Suen Ngai Foo	香山	Su	1,2	Heung Shan
係少嫻	Suen Shiu Haan, Miss	香山	Fr	1	Heung Shan
宋武英	Sung Mo Ying		Fr	1	Korea
司徒寬	Sz-to Foon	開平	Ju	1,2	Hoi Ping
司徒喬	Sz-to Kiu	開平	Su	S,1,2	Hoi Ping
戴惠瓊	Taai Wai King, Miss	歸善	Ju	1,2	Canton
譚卓垣	Taam Cheuk Woon	新會	Se	1,2	Kong Moon
鄧以岸	Tang Yi Kan	三水	Su	1,2	Canton
陶永康	To Wing Hong		Su	1	Foochow
湯澤光	Tong Chaak Kwong	新會	Ju	1	San Wui

唐鴻基	Tong Hung Kei	香山	Su	S,1,2	Hongkong
湯受頤	Tong Shau Yi	新會	Fr	1,2	Canton
唐逸寧	Tong Yat Hing, Miss	香山	So	S,1,2	Hongkong
曾昭照	Tsang Chiu Chiu	番禺	Su	1,2	Macao
曾昭森	Tsang Chiu Sham	番禺	Ju	S,1,2	Canton
曾恩濤	Tsang Yan To	高明	So	1,2	Canton
謝志媛	Tse Chi Yuen, Miss	東莞	Su	1,2	Canton
謝天錫	Tse Tin Sik	開平	So	1,2	Hoi Ping
左雪顏	Tsoh Suet Ngaan, Miss	南海	Su	1,2	Canton
左達明	Tsoh Taat Ming	南海	Su	1,2	Canton
徐學楨	Tsui Hok Ching	番禺	Fr	1,2	Canton
徐鐵珊	Tsui Tit Shaan	番禺	Su	1,2	Canton
韋鴻章	Wai Hung Cheung	奉議	Su	1,2	Fung Yi
韋瑞生	Wai Sui Shang	香山	Fr	1,2	Hongkong
尹衡聲	Wan Hang Shing	東莞	Fr	1,2	Hongkong
溫耀槃	Wan Iu Pan	四會	Se	1,2	Wuchow, Sai.
黃振道	Wong Chan To, Miss	番禺	Su	2	Canton
黃眞汝	Wong Chan Yue, Miss	南海	So	1,2	Canton
黃熾昌	Wong Chi Cheung	南海	Su	1,2	Naam Hoi
黃蔔生	Wong Po Shang	連縣	So	1	Canton
黃秀平	Wong Sau Ping, Miss	清遠	Su	1,2	Canton
王愼謙	Wong Shan Him	番禺	So	S,1,2	Honam
黃翠鳳	Wong Tsui Fung, Miss	台山	So	S,1,2	Canton
黃子信	Wong Tsz Sun	台山	Su	S,1,2	Toi Shan
黃榮韶	Wong Wing Chiu	南海	So	S,1,2	Canton
黃仁讓	Wong Yan Yeung	南海	So	1,2	Canton
黃汝衡	Wong Yue Hang	香山	Fr	1,2	Heung Shan
黃汝奇	Wong Yue Kei	香山	Su	1,2	Heung Shan
胡　偉	Wu Wai	合山	Fr	1,2	Honam
胡裕經	Wu Yue Hang	鶴山	Fr	1,2	Denver, Colo., U. S. A.
丘蘭秀	Yau Laan Shau	梅縣	So	S,1,2	Mui Yuen
楊肇康	Yeung Shiu Hong	香山	So	S,1,2	Hongkong
楊華日	Yeung Wa Yat	香山	Su	1,2	Macao
楊燁樞	Yeung Yuk Shue	鶴山	So	S,1,2	Hongkong

余岸圖	Yue Kan Po	台山	Fr	1,2	Toi Shan
容冠威	Yung Koon Wai	香山	Su	1,2	Canton

College of Agriculture

區子蔭	Au Tsz Yam	南海	Su	1,2	Fatshan
區英翔	Au Ying Tseung	新會	Su	S,1	Hongkong
陳桂生	Chan Kwai Shang	梅縣	Su	1,2	Mui Yuen
鄭鳳桐	Cheng Fung Tung	東莞	Su	2	Canton
朱志汲	Chue Chi Kap	新會	Su	1,2	Canton
何同銓	Hoh Tung Kwan	香山	Su	1,2	Siu Lam
何　亮	Hoh Leung	番禺	Se	S,1,2	Honam
何汝佳	Hoh Yue Kai	南海	Fr	2	Hongkong
何汝調	Hoh Yue Tung	南海	So	1,2	Canton
甘汝登	Kam Yue Tang	陽江	Su	S,1,2	Yeung Kong
古桂芬	Koo Kwai Fan	香山	Se	1,2	Macao
關仲平	Kwaan Chung Ping	高明	Su	1,2	Canton
李作楫	Lei Tsok Tsap	台山	Su	S,1,2	Toi Shan
李汝偉	Lei Yue Wai	新會	Su	1,2	Fatshan
羅當聖	Loh Tong Sing	開平	Su	S,1,2	Hoi Ping
陸啓先	Luk Kai Sin	容縣	Fr	1,2	Yung Yuen, Sai.
馬文甲	Ma Man Kaap	香山	Se	1,2	Hongkong
馬燦恩	Ma Tsaan Yan	高要	Su	1,2	Shiu Hing
吳顯照	Ng Hin Chiu	新安	Su	1,2	Honolulu, T. H.
伍啓聲	Ng Kai Shing	梅縣	Su	1,2	Hongkong
何天斧	Oh Tin Foo	福建	Su	1,2	Sumatra
杜樹材	To Shue Tsoi	南海	Ju	1,2	Hongkong
杜樹桐	To Shue Tung	南海	Su	S,1,2	Canton
唐漢基	Tong Hon Kei	香山	So	S,1	Hongkong
唐耀祖	Tong Iu Tso	恩平	Fr	1,2	Hongkong
謝樹邦	Tse Shue Pong	東莞	Fr	1,2	Shek Lung
韋澤生	Wai Chaak Shang	香山	Fr	1,2	Hongkong
溫耀文	Wan Iu Man	肇慶	Fr	1,2	Wuchow, Sai.
黃澤普	Wong Chaak Po	南海	Se	S,1,2	Honam
王愼初	Wong Shan Choh	番禺	Su	1,2	Honam
黃友祥	Wong Yau Cheung	嘉應	Su	2	Kaying

胡寶楷	Wu Po Kaai	鶴山	Fr	1,2	Hongkong
楊桂瓊	Yeung Kwai King, Miss	香山	Fr	1,2	Macao
英以權	Ying Yi Kuen	新會	Fr	S,1,2	Singapore
容顯宣	Yung Hin Suen	香山	Fr	S,1,2	Hongkong
容秉衡	Yung Ping Hang	香山	So	1,2	Heung Shan

Six Months Course in Sericulture

陳基滌	Chan Kai Tsun	順德	Shun Tak
周也培	Chau Ya Pui	,,	Shun Tak
張家報	Cheung Ka Po	,,	Shun Tak
何天任	Hoh Tin Yam	,,	Shun Tak
何應聰	Hoh Ying Tsung	,,	Shun Tak
洪駿予	Hung Tsun Yue	香山	Heung Shan
梁鈞培	Leung Kwan Pui	順德	Shun Tak
梁允堯	Leung Wan Iu	,,	Shun Tak
勞耀沂	Lo Iu Yi	,,	Shun Tak
龍協瑜	Lung Hip Yue	,,	Shun Tak
龍覺先	Lung Kok Sin	,,	Shun Tak
馬信朝	Ma Sun Chiu	,,	Shun Tak
辛德幹	Sun Tak Kon	,,	Shun Tak
楊藉初	Yeung Tsik Choh	,,	Shun Tak

SUMMARY

	College of Arts and Sciences	College of Agriculture	Total
Seniors	9	4	13
Juniors	12	1	13
Sophomores	39	3	42
Freshmen	39	10	46
Sub-freshmen	78*	18*	96
Specials	6	0	6
Short Course		14	14
Totals	183	50	233
	*Duplication		1
		Net Total	232

Special Publications of the College

BULLETINS ISSUED BY THE COLLEGE*

Bulletin No. 5. GROFF, G. W., Agricultural Reciprocity between America and China. Illustrated. 40 pp. $0.20.

Bulletin No. 12. GROFF, G. W., The Papaya for South China. Illustrated. 7 pp. $0.10.
Chinese edition under title 木瓜. 8 pp. $0.10.

Bulletin No. 15. Some Educational Problems in China. 20 pp. $0.20.

Bulletin No. 18. LEVINE, C. O., and CADBURY, W.W., A Study of Milk Produced in Kwangtung. 9 pp. $0.10.

Bulletin No. 20. The 1917-18 Journal of the Lingnaam Agricultural Society (in Chinese). 150 pp. $0.20.

Bulletin No. 22. CADBURY, W. W., The 1918 Pandemic of Influenza in Canton, China. 20 pp. $0.10.

Bulletin No. 23. LEVINE C. O., Notes on Farm Animals and Animal Industries in China. Illustrated. 54 pp. $0.40.

Bulletin No. 25. GRAYBILL, H. B., Lawn Grasses for South China. 6 cuts, 6 pp. $0.20.

Bulletin No. 27. LEVINE, C. O., Butchering and Curing Meats in China. 9 cuts, 41 pages. $0.20.

Bulletin No. 28. WONG, H., KEYS, J. N., GRAYBILL, H. B., and MACDONALD, W. E., How to Study. $0.20.

Bulletin No. 29. GRIGGS, J. C., Efficient Speech. $0.30.

* A list of the general publications, catalogues, etc., descriptive of the Canton Christian College is given elsewhere in this catalogue, on page 21.

CANTON CHRISTIAN COLLEGE SERIES OF TEXTS.

IN ENGLISH

BERGSTRESSER, C.A., Essentials of Arithmetic, Book I. Canton, 1909, College Bookstore. *Out of Print.*

GRAYBILL, H.B., Every-Day English. Book I and Book II. Shanghai, 1910, Commercial Press, Ltd. Book I, $0.40; Book II, $0.30.

GRAYBILL, H.B., Teacher's Manual for Every-Day English Books I & II. Canton, 1912, Commercial Press, Ltd. $0.30.

BERGSTRESSER, C.A., and WICKS, C.H., Essentials of Arithmetic, Book II. Canton, 1912, College Bookstore. *Out of Print.*

DUNCAN, K., Essentials of Economics. Shanghai, 1914, Commercial Press, Ltd. $0.80.

BERGSTRESSER, C.A., Essentials of Arithmetic, revised by Y. T. Chiu and W. E. MacDonald. Canton, 1917, College Bookstore. $2.50.

DUNCAN, K., Exercises in Elementary Economics. Canton, 1918, College Bookstore. $1.50.

GRAYBILL, H.B., Mastery of English Books I, II, III. Shanghai, 1919, Edward Evans & Sons, Ltd. Book I, $0.50; Book II, $1.00; Book III, $1.25. Book IV ready in Summer of 1922.

GROFF, G. W., The Lychee and Lungan. Canton, 1921, Canton Christian College. 60 Illustrations. $5.00.

IN CHINESE

FUSON, C.G., Primary Geography. 2 vol. Shanghai, 1913, Commercial Press, Ltd. $0.25 each.

WONG, K.M., Arithmetic for Higher Elementary Schools. 4 vol. Shanghai, 1913, Commercial Press. $0.25 each.

FUSON, C.G., Geography of Kwangtung. Canton, 1918, College Bookstore. $0.25.

Any of the publications listed above can be secured, unless out of print, by ordering from the College Bookstore, Honglok, Canton, China.

Addenda and Errata

PAGE 28. Add to list of Accredited Schools:
Kwong Yit Academy

,, 37. For HONGKONG AGRICULTURAL SOCIETY read CHINA AGRICULTURAL RESEARCH ASSOCIATION. (The name in Chinese characters is correct as printed.)

,, 38. Add to list of Prizes:

SCHAUFFLER ENGLISH PRIZES, one for the best work in required English, and one for the best work in an elective course in English, will be awarded in 1923.

ALLEN PRIZE, awarded for the best essay by a student on the topic, "What is Necessary for the Promotion of International Friendship?"

,, 41. Further details of the award of scholarships at the University of Hongkong are:—

Two scholarships each year commencing in 1922 will be awarded in the Medical Faculty of the University of Hongkong to students who have completed their pre-medical course at Canton Christian College, entitling their holders to free tuition for four years at the University of Hongkong.

The scholarships will be awarded each year by the Faculty of the College of Arts and Sciences of Canton Christian College and the scholars thus appointed will enter the University in January or September of each year at their own option.

,, 53 In Sophomore Year,

Semester I,
for German 1a or French 1a read German 1 or French 1,

Semester II,
for German 1b or French 1b read German 2 or French 2.

COLLEGIATE MISSIONS

in the

CANTON CHRISTIAN COLLEGE

The Pennsylvania State College Mission to China 1907
GEORGE WEIDMAN GROFF, M.S. (Pennsylvania State)
WALTER L. FUNKHOUSER, B.S. (Pennsylvania State)

The Foreign Work of the Christian Association of the University of Pennsylvania 1909
WILLIAM W. CADBURY, M.A. (Haverford), M.D. (Pennsylvania)
Internal Medicine

The Teachers College of Columbia University Foundation for a Professorship of Education in China. 1914
H. B. GRAYBILL, B. A. (Washington and Lee), M. A. and Diploma (Teachers College, Columbia)
Education

The Foreign Work of the Christian Association of the University of Pittsburgh 1915

The Kansas State Agricultural College Mission to China
CARL OSCAR LEVINE, B.S. (Kansas State) 1916
Animal Husbandry

The Washington and Lee University Mission to China 1919

CO-OPERATING
with the
CANTON CHRISTIAN COLLEGE

The London Missionary Society
Supporting Rev. ALEXANDER BAXTER 1915

ACADEMIC CALENDAR

1922-24

SUMMER SESSION

		1922		1923	
Summer Session Entrance Examinations, 9:00 a.m.	Mon.	July	3	July	2
Summer Session opens, 7:00 p.m.	Mon.	July	3	July	2
Summer Session closes	Wed.	Aug.	2	Aug.	1

FIRST SEMESTER

Registration and Entrance Examinations, 8:00 a.m.	Tues.	Sept.	5	Sept.	4
Re-examinations, 8:00 a.m.	Wed.	Sept.	6	Sept.	5
Fees paid at the Bank	Thurs.	Sept.	7	Sept.	6
Semester opens 7:00 p.m	Thurs.	Sept.	7	Sept.	6
Holiday: Independence Day	Tues.	Oct.	10		
	Wed.			Oct.	10
Holiday: Christmas Day	Mon.	Dec.	25		
	Tues.			Dec.	25
		1923		1924	
Holiday: New Year's Day	Mon.	Jan.	1		
	Tues.			Jan.	1
Semester closes	Fri.	Jan.	26	Feb.	1

SECOND SEMESTER

Registration and Entrance Examinations, 9:00 a.m.	Tues.	Feb.	6	Feb.	12
Re-examinations, 9:00 a.m.	Wed.	Feb.	7	Feb.	13
Fees paid at Bank	Thurs.	Feb.	8	Feb.	14
Semester opens, 6:00 p.m.	Thurs.	Feb.	8	Feb.	14
Holiday: Class and Founders' Day	Mon.	May	21	May	19
Alumni Day	Thurs.	June	21	June	19
Commencement Exercises, 11:00 a.m.	Fri.	June	22	June	20

廣州嶺南大學章程 CANTON CHRISTIAN COLLEGE CATALOGUE 1923-24

Canton Christian College

College of Arts and Sciences

College of Agriculture

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CATALOGUE

1923-24

CANTON, CHINA

0518

TRUSTEES

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CANTON CHRISTIAN COLLEGE

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The Executive Secretaries of Mission Boards having work in China are *ex officio* Advisors to the College.

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CHAN LIM PAAK
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LEI YUK TONG
MA YING PIU
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American Office

18 East 41st. St., New York

CHARLES K. EDMUNDS, President of the College
W. HENRY GRANT, Secretary

Regents' Representative

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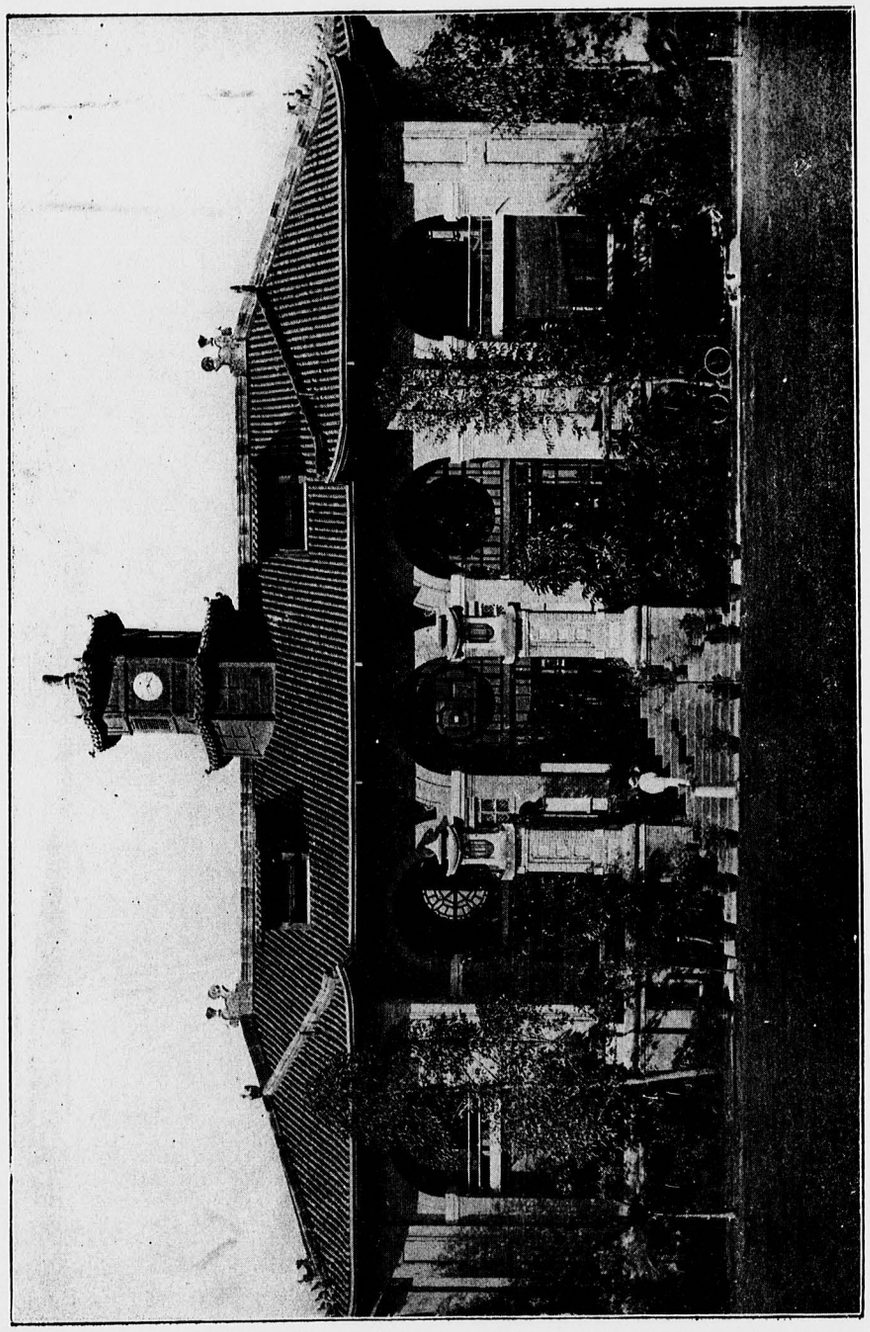
0520



GRANT HALL

Canton Christian College

Bulletin No. 34

CATALOGUE

OF

THE COLLEGE OF ARTS AND SCIENCES

AND

THE COLLEGE OF AGRICULTURE

ACADEMIC YEAR 1923-24

CANTON, CHINA
May, 1923
Printed by the College Press

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College of Arts and Sciences

College of Agriculture

Faculty

1923-24

文士 CHARLES KEYSER EDMUNDS, B.A., Ph. D., *President*; *Professor of Physics, and Director of Physics Laboratory.*
B.A., Johns Hopkins University, 1897, Ph. D., 1903; Professor of Physics, Canton Christian College, 1903- ; Vice-President, 1906; President, 1907- ; Observer in Charge, Magnetic Survey of China, Carnegie Institution of Washington, 1905-17.

鍾榮光 CHUNG WING KWONG, Chinese Second Degree, *Vice-President.*
First Degree, Chinese Government Examinations, 1884; *Second Degree*, 1894; Head of Chinese Department, Canton Christian College, 1900-08, Chinese Dean, 1909-16; Commissioner of Education for Kwangtung Province, 1911-13; Study and travel in America, 1913-19; Vice-President, 1917- .

香雅各 JAMES MCCLURE HENRY, B.A., B.D., *Vice-President.*
B. A., University of Wooster, 1901; Instructor in Biology, Alma College, 1901-02; B D., Union Theological Seminary, 1907; Pastor, Peck Memorial Chapel, Washington, D.C., 1908-09; Missionary American Presbyterian (North) Mission, Canton, 1909-19; Assistant in Systematic Theology, Union Theological Seminary, New York, 1916-17; Executive Secretary, Canton Christian College, 1919-1922; Vice-President, 1922- ; *On leave 1923-24.*

祁力姑娘 KATHARINE CHARLOTTE GRIGGS, B. A., *Executive Secretary.*
B. A., Smith College, 1900; Assistant Secretary, Trustees of Canton Christian College, 1912-23; Assistant Treasurer, 1922-23; Executive Secretary, 1923- .

鄧 勤 KENNETH DUNCAN, B.A., M.A., Ph. D., *Dean of College of Arts and Sciences; Professor of Economics.*
B. A., Wabash College, 1910; M. A, University of Wisconsin, 1915; Ph. D., University of Michigan, 1923; Instructor, Canton Christian College, 1911-14; Special Examiner, Insurance Commission, State of Wisconsin, 1914; Associate Professor of Economics, Canton Christian College, 1915-18; Professor, 1918- ; Dean, College of Arts and Sciences, 1917-22, 1923- .

高魯甫 GEORGE WEIDMAN GROFF, B.S., M.S., *Dean and General Director, College of Agriculture; Professor of Horticulture.*
B. S., Pennsylvania State College, 1907, M. S., 1918; Instructor, Canton Christian College, 1907-10; Professor of Horticulture, 1912- ; Director of Agricultural Work, 1912-21; Collaborator of United States Department of Agriculture, Bureau of Plant Industry, 1915-17, 1921- ; Field Assistant, 1917-21. Dean and General Director, 1921- .

區勵周 AU LAI CHAU, Chinese First Degree, *Assistant Professor of Chinese.*

First Degree, Chinese Government Examinations, 1898; Graduate, Provincial Law School, Kwangtung, 1911; Government service and miscellaneous teaching experience, 1900-07, 1911-14; Instructor, Provincial Law School, 1914-15; Instructor, Canton Christian College, 1915-22; Assistant Professor, 1922- .

白士德 ALEXANDER BAXTER, REV., *Professor of Religion and Supervisor of Religious Work.*

Graduate, Hackney Theological College (University of London), 1907; Missionary of the London Missionary Society in Canton, 1907-15; appointed London Missionary Society's representative at Canton Christian College as Associate Professor, 1916-19; Professor, 1919- .

鮑令留 HENRY CHASE BROWNELL, B.A., M.A., *Dean of Men; Professor of History.*

B. A., University of Vermont, 1908; Rhodes Scholar, Oxford University, 1910-13; B.A., 1912; M.A., Harvard University, 1919; Instructor, Canton Christian College, 1908-10; Associate Professor of History, 1913-19; Professor, 1919- ; Dean of Men, 1923- .

嘉惠霖 WILLIAM WARDER CADBURY, B.A., M.A., M.D., *College Physician.*

B. A., Haverford College, 1898; M.A., 1899; M. D., University of Pennsylvania, 1902; Physician, Philadelphia, 1903-09; Instructor in Materia Medica and Therapeutics, University Medical School, Canton, 1910-14; Lecturer, Canton Christian College, 1914-17; Internist to Canton Hospital, 1914-22; College Physician, Canton Christian College, 1917- .

陳受頤 CHAN SHAU YI, B.A., *Assistant Professor of Chinese Literature.*

B. A., Canton Christian College, 1920; Instructor, Canton Christian College, 1920-23; Assistant Professor, 1923- .

陳德芸 CHAN TAK WAN, Chinese First Degree, *Assistant Professor of Chinese and History; Associate Librarian.*

First Degree, Chinese Government Examinations, 1898; Instructor in Kwangtung, Hongkong and Macao schools, 1900-11; Managing Editor, "Man Shaan Daily," 1912-13; Instructor, Canton Christian College, 1915-22; Associate Librarian, 1919- ; Assistant Professor, 1922- .

陳輯五 CHAN TSAP NG, Chinese First Degree, *Senior Professor of Chinese.*

First Degree, Chinese Government Examinations, 1902; Instructor in Kwangtung schools, 1902-07; Instructor, Canton Christian College, 1908-13; Acting Chinese Dean, 1913-16; Associate Professor of Chinese, 1915-17; Senior Professor, 1918- .

張焯坤 CHEUNG CHEUK KWAN, B.S., *Director Agricultural Education; Associate Professor of Horticulture.*

B. S. in Agriculture, Cornell University, 1916: Instructor in Horticulture, Canton Christian College, 1921-23; Director of Agricultural Education, 1922- ; Associate Professor, 1923- .

趙恩賜 CHIU YAN TSZ, B.S., M.A., *Assistant Professor of Chemistry.*

B. S., University of California, 1913; M.A., Columbia University, 1915; Instructor in Chemistry, Canton Christian College, 1915-1922; Assistant Professor 1922- .

斐素姑娘 JULIA E. FISHER, B.A., *Dean of Women.*

B. A., University of Washington, 1910; Teaching Fellow in Philosophy, University of Washington, 1921-22; Dean of Women, Canton Christian College, 1922- .

傅保光 FU PO KWONG, B.S., M.S., *Professor of Agricultural Manufacturing; Director of Extension, College of Agriculture.*

B. S., in Agriculture, Michigan Agricultural College, 1914; M.S., 1916; Seed Selector, D. M. Ferry Seed Farm, near Detroit, Mich., 1914-16; Superintendent, M. Y. San Co., Hongkong, 1917-19; Instructor in Industrial Biology, Canton Commercial Institute, 1919-20; Instructor in Agriculture, Canton Christian College, 1920-22; Director of Agricultural Industries, 1922-23; Professor of Agricultural Manufacturing, 1922- ; Director of Extension, 1922- .

葛理佩 HENRY BLAIR GRAYBILL, B.A., M.A., *Professor of Education; Supervisor of Schools; Principal of Middle School.*

B. A., Washington and Lee University, 1902; M.A., Columbia University, and Diploma, Teachers College, 1917; Instructor, Canton Christian College, 1903-06; Principal of the Middle School, 1907- ; Acting Dean, College of Arts and Sciences, 1915-16; Professor of English, 1915-16, of Education, 1916- ; Supervisor of Schools, 1921- .

格 禮 JOHN CORNELIUS GRIGGS, B.A., PH. D., *Professor of English.*

A. B., Yale University, 1889, Ph. D., Leipsic, 1893; Professor, History of Music, Metropolitan College of Music, 1893-1898; Teacher of singing in New York City and at Vassar College, 1897-1918; Associate Professor of English, Canton Christian College, 1919- .

考 活 CHARLES WALTER HOWARD, B.A., M.S., *Professor of Sericulture.*

B. A., Cornell University, 1904; M.S., University of Minnesota, 1913; Assistant Entomologist, Transvaal Department of Agriculture, 1905-06; Entomologist, 1906-08; Entomologist, Department of Agriculture of Portuguese East Africa, 1908-11; Special Assistant, Rockefeller Institute for Medical Research, 1911; Instructor in Entomology, Minnesota Agricultural College, 1912-13; Assistant Professor of Entomology and Parasitology, 1913-17; Professor of Biology, Canton Christian College, 1917-22; Curator of Herbarium, 1918-20; Curator of Museum, 1918-22; Professor of Sericulture, 1922- .

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簡帝鑒 FRANK KAN, B.S., M.S., *Assistant Professor of Agronomy; Director of Division of Business, College of Agriculture.*

B. S., in Agriculture, Oregon Agricultural College, 1916; M. S., Texas Agricultural and Mechanical College, 1918; Instructor in Agronomy, Canton Christian College, 1922-23; Assistant Professor, 1923- ; Director of Division of Business, 1923- .

顧 士 JAMES NOEL KEYS, B.A., M.A., *Assistant Professor of Education.*

B. A., College of Emporia, 1916, Rhodes Scholar, Oxford University, 1913-14, 1916-17; B.A., 1918; M.A., University of Chicago, 1921; Instructor in Psychology and Education, Canton Christian College, 1919-20; 1921-22; Assistant Professor, 1922- .

聶 士 ARTHUR RUSSELL KNIPP, B.A., B.S., *Assistant Professor of Physics.*

B. A., Johns Hopkins University, 1907; B.S., Massachusetts Institute of Technology, 1909; Instructor, Canton Christian College, 1909-15, 1917-19; Resident Engineer, 1909-15, 1917-22; Associate Professor, 1919- . *On leave 1922-24.*

梁敬敦 CLINTON NEVIUS LAIRD, B.A., M.A., *Professor of Chemistry.*

B. A., University of Pennsylvania, 1903, M. A., 1905; Instructor, Canton Christian College, 1905-09; Bursar, 1907-14; Professor of Chemistry, 1910- ; Acting Principal of the Middle School, 1913-15; Acting Dean, College of Arts and Sciences, 1921-22; Dean, 1922-23.

羅飛雲 CARL OSCAR LEVINE, B.S., M.S., *Professor of Animal Husbandry, Director of Research and Experiments, College of Agriculture.*

B. S. in Agriculture, Kansas State Agricultural College, 1914; M.S., Iowa State College, 1920; Instructor, Canton Christian College, 1916-19; Curator of Herbarium, 1916-19; Acting Director of Agricultural Work, 1917-18, 1920-21; Associate Professor, 1919-22; Professor, 1922- ; Director of Research and Experiments, 1922- .

麥丹路 WILFRID EWART MACDONALD, B.A., M.A., *Professor of Mathematics.*

B. A., University of Tennessee, 1901; M.A., Harvard University, 1907; Instructor in Mathematics, Massachusetts Institute of Technology, 1903-06; Instructor in Mathematics, Harvard University, 1908-10; Professor of Mathematics, Canton Christian College, 1911-16, 1917- ; Instructor in Mathematics, University of Pittsburgh, 1916-17.

莫古黎 FLOYD ALONZO MCCLURE, B.A., B.S., *Assistant Professor of Botany.*

B. A., Ohio State University, 1918, B.S., 1919; Instructor in Horticulture, Canton Christian College, 1919-23; Cooperating with Office of Foreign Seed and Plant Introduction, United States Department of Agriculture, 1923- ; Assistant Professor of Botany, 1923- .

那多智 HERBERT PIERCY NOTTAGE, M.D., *Specialist, Eye, Ear, Nose and Throat; Associate College Physician.*

M.D., Harvard Medical School, 1886; Specialist, Eye, Ear, Nose, and Throat, to Queen's Hospital and Children's Hospital, Honolulu, 1909-15; Captain Medical Corps, U. S. A., 1917-18; Chief of Section of Head Surgery, Camp Cody, N. Mex., 1918-19; Associate College Physician, Canton Christian College, 1920- .

禮 瑞 RONALD REES, B.A., M.A., *Associate Professor of History.*

B.A., Oxford University, 1911, M.A., 1914; Mansfield Theological College, Oxford, 1911-13; Tutor, Hansworth Theological College, 1913-15; Intercollegiate Secretary for London Student Christian Movement, 1915-17, 1919-22; Appointed Wesleyan Methodist Missionary Society's representative at Canton Christian College, as Associate Professor, 1922- .

沈會儒 EDWARD SHIM, B.S., *Associate Professor of Agronomy.*

B.S. in Agriculture, Kansas State Agricultural College, 1916; Miscellaneous experience teaching and investigational work in Agriculture in Hawaii and the Philippines, 1916-21; Instructor in Agronomy, Canton Christian College, 1911-23; Associate Professor, 1923- ; in charge of work in Agronomy, 1921- .

陳子英 CHEN TSZ YING, B.S., M.S., *Instructor in Biology.*

B.S., Soochow University, 1921; M.S., Peking University, 1923; Teaching fellow in Biology, Peking Union Medical College, 1921-23; at Canton Christian College, 1923- .

張世雄 CHEUNG SAI HUNG, *Assistant in Agronomy, Short Course Instructor.*

Graduate Kwangtung Agricultural College, 1916; Practical Experience in Government Nurseries, 1920-22; at Canton Christian College, 1922- .

吉 第 MAURICE LAROY COTTA, B.S., *Superintendent of Buildings and Grounds.*

B.S. in Municipal and Sanitary Engineering, University of Illinois, 1920; Instructor and Assistant Resident Engineer, Canton Christian College, 1920-21; Resident Engineer, 1922-23; Superintendent of Buildings and Grounds, 1923- .

鍾寶璇 CHUNG PAU SIEN, B.S., M.S., *Instructor in Animal Husbandry.*

B.S. in Agriculture, Iowa State College, 1917; M.S., University of Illinois, 1918; Official Inspector of Dairies in Iowa, 1918; Y. M. C. A. Secretary, Chinese Labor Battalion in France, 1918-21; at Canton Christian College, 1922- .

鄧其芝 EDWARD DING, B.S., M.S., *Instructor in Farm Management.*

B.S. in Agriculture, Oregon Agricultural College, 1920, M.S., 1921; at Canton Christian College, 1922- .

富 倫 HENRY SORG FRANK, B. CHEM., M.S., *Instructor in Physics.*

B. Chem., University of Pittsburgh, 1922; M.S., 1922; at Canton Christian College, 1922- .

基來度 PAUL ALFRED GRIEDER, B.A., M.A., *Instructor in English and German.*

B.A., University of Dubuque, 1921; M.A., University of Iowa, 1922; at Canton Christian College, 1922- .

海賢士 CHARLES HUSTON HAINES, B.A., *Instructor in Economics.*

B.A., Princeton University, 1921; General Secretary, Y.M.C.A., Princeton, 1921-22; at Canton Christian College, 1922- .

何 亮 HOH LEUNG, B.S., *Instructor in Animal Husbandry.*

B.S. in Agriculture, Canton Christian College, 1922; at Canton Christian College, 1922- ; in charge of Agricultural Publications, 1923- .

何爾達 ALFRED HUBBARD HOLT, B.A., *Instructor in English.*

B.A., Williams College, 1920; at Canton Christian College, 1920- .

郝士華 HARVEY WALTER HOUSE, B.S., *Instructor in Chemistry.*

B.S. in Chemical Engineering, California Institute of Technology, 1920; at Canton Christian College, 1921- ; Curator of Museum, 1922-23; *On leave 1923-* .

甘乃光 KAM NAAI KWONG, B.A., *Instructor in Business Administration.*

B.A., Canton Christian College, 1922; at Canton Christian College, 1922- .

郭華秀 KWOK WA SHAU, *Assistant in Horticulture, Short Cours Instructor.*

Graduate Kwangtung Agricultural College, 1916; at Canton Christian College, 1917- ; in charge of citrus co-operative work with United States Department of Agriculture, 1921-22.

林建中 LAM KIN CHUNG, *Extension Assistant in Swatow.*

李士瀛 LEI SZ YING, B.A., *Instructor in Rural Sociology, and Executive Secretary of Board of Managers, College of Agriculture.*

Certificate, Young Men's Christian Association Training School, Chicago, 1920; at Canton Christian College, 1920- .

李威士 LEI WEI SZ, *Assistant in Sericulture.*

彭 利 POND LEE, B.S., M.A., *Instructor in Animal Husbandry and Bacteriology.*

B.S. in Agriculture, Iowa State College, 1918; M.A., University of California, 1920; Practical Experience in Hog Raising, Berkeley, 1920-21; Anti-hog Cholera Serum and Cow Pox Vaccine making, Cutler Laboratory, California, 1921-22; at Canton Christian College, 1923- .

邵堯年 SHIU IU NIN, *Assistant in Horticulture, Short Course Instructor.*

Graduate Kwangtung Training School for Teachers of Agriculture and Forestry, 1911; Field Assistant, Kwangtung Agricultural College, 1911-16; Assistant in Agronomy, College of Agriculture, Southeastern University (Nanking), 1916-17; Assistant in Agronomy, Kwangtung Provincial Agriculture and Forestry Experiment Station, 1917-22; at Canton Christian College, 1922- .

譚卓垣 TAAM CHEUK WOON, B.A., *Associate Librarian.*

B.A., Canton Christian College, 1922; at Canton Christian College, 1922- .

譚錫鴻 TAAM SIK HUNG, B.S., *Director of Swatow Sub-Station, College of Agriculture.*

B. S. in Agriculture, Kansas State Agriculture College, 1916; Instructor in Animal Husbandry, Canton Christian College, 1917-20; Teaching, Central China Agricultural Colleges, 1920-22; Director of Swatow Sub-Station, 1923- .

尹 申 EDWARD RAGUET VAN SANT, B.A., *Instructor in French.*

B.A., Princeton University, 1922; at Canton Christian College, 1922- .

華綺溫 IVAN HAROLD WARE, B.A., *Instructor in Business Administration.*

B.A., University of Michigan, 1922; Canton Christian College, 1922- ; Acting Bursar, 1923- .

章 愨 SIDNEY KOK WEI, B.A., Ph. D., *Instructor in Philosophy and Government.*

B.A., Oberlin College, 1915; Ph.D., University of Chicago, 1920; at Canton Christian College, 1921- .

黃澤普 WONG CHAAK PO, B.S., *Assistant in Sericulture.*

B.S. in Agriculture, Canton Christian College, 1922; at Canton Christian College, 1922- ; in charge of Kwei Chow Sericulture Sub-Station, 1923- .

楊國荃 YEUNG KWOK TSUEN, B.A., M.A., *Instructor in Education.*

B.A., Canton Christian College, 1920; M.A., Stanford University, 1921; at Canton Christian College, 1921- .

袁漢邦 YUEN HON PONG, *Assistant in Horticulture, Short Course Instructor.*

Head Forester, Botanical and Forestry Department, Hongkong, 1908-18; at Canton Christian College, 1921- ; in charge of Nursery, 1923- .

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Location of the College

THE CANTON CHRISTIAN COLLEGE, known in Chinese as 嶺南大學 *Ling Naam Taai Hok*, is situated in a suburb of Canton, the metropolis of Kwangtung Province. The College property lies along the Pearl River, on the north shore of the island of Honam, two and a half miles east of the center of the city. Canton is easily reached by either train or river steamer from the port of Hongkong, ninety miles away.

The College has a campus of three hundred and fifty acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from forty to seventy feet above the river, which affords beautiful views in all directions. There are forty-six permanent buildings of brick and reinforced concrete, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office known as *Honglok* (康樂), an agency under the Canton postal administration, on its campus. The address of the College is Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day from the end of the Bund near the Canton-Kowloon Railway station.

History

THE HISTORY of the Canton Christian College on its present site dates from 1904.

Its rapid expansion and success during this time owes much, however, to the bold aims and persistent efforts of a small group of men during the twenty years previous. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his Board for a Christian College in Canton, and the next year one of his colleagues, Rev. A. P. Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to use English as the medium for teaching Western subjects, and to have as broad a purpose as the American University at Beirut. Though five of the seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools, and for contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moreover, needed leaders of Christian faith and ideals in every sphere of life.

11a-b. ANALYTICAL GEOMETRY. This course aims to increase the student's appreciation of the processes of mathematical thought and the accuracy of expression afforded thereby; to train him in the application of fundamental principles of the analytic method both in the plane and in space; the straight line, conic sections, quadric surfaces, with special attention to locus problems. The idea of the derivative is introduced.

Fine and Thompson: Coordinate Geometry. 4 hours; two semesters.

31 and 32. DIFFERENTIAL AND INTEGRAL CALCULUS. Drill on the methods of the Differential and Integral Calculus with numerous applications to geometry and physics, the theoretical development being as rigorous as the powers of each class will warrant. As a first course, however, its chief aim is to develop skill in the manipulation of formulas and in the statement and solution of problems. Indispensible for any advanced study of mathematics, chemistry, or physics and for intelligent engineering.

Osgood: Differential and Integral Calculus. 4 hours; two semesters.

34. DIFFERENTIAL EQUATIONS. Prerequisite: Mathematics 31 and 32. This course is indispensible for students looking toward electrical engineering. *Not offered in 1923-24.*

D. A. Murray: Differential Equations. 3 hours; one semester.

36. SOLID ANALYTICAL GEOMETRY. Prerequisite: Mathematics 31 and 32. *Not offered in 1923-24.*

C. Smith: An Elementary Treatise on Solid Geometry. 3 hours; one semester.

MUSIC

Credit to the extent of not more than 2 credits in one semester, nor more than 6 credits toward graduation, may be secured for music study, if under the supervision of the College and of approved grade. Ordinarily some special technical study of music will be expected of a student seeking credit in music.

PHILOSOPHY

DR. S. K. WEI; PROFESSOR CHAN TSAP NG

11a-b. HISTORY OF WESTERN PHILOSOPHY. A general survey of the development of Western philosophy from the Greeks to the present time. Students are required to read the original sources as much as possible in connection with studying the standard texts in the history of philosophy. Ancient and mediæval philosophy are considered in the first semester, modern and contemporary philosophy in the second.

Bakewell: Source Book in Ancient Philosophy.

Poole: Illustrations of Thought in the Middle Ages.

Rand: Modern Classical Philosophers. 3 hours; one semester.

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The College has a campus of three hundred and fifty acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from forty to seventy feet above the river, which affords beautiful views in all directions. There are forty-six permanent buildings of brick and reinforced concrete, as well as many structures of less substantial character.

The College is situated near the village of Honglok, and has a post office known as *Honglok* (康樂), an agency under the Canton postal administration, on its campus. The address of the College is Canton (廣州康樂).

The College launch maintains daily service to Canton, and small boats may be secured at practically all hours of the day from the end of the Bund near the Canton-Kowloon Railway station.

History

THE HISTORY of the Canton Christian College on its present site dates from 1904.

Its rapid expansion and success during this time owes much, however, to the bold aims and persistent efforts of a small group of men during the twenty years previous. In 1884 one of the Presbyterian missionaries at Canton, Rev. B. C. Henry, returned to America with a scheme to lay before his Board for a Christian College in Canton, and the next year one of his colleagues, Rev. A. P. Happer, made another appeal for the founding of such an institution to serve all branches of the Christian church in South China. It was to aim at the highest educational efficiency, to use English as the medium for teaching Western subjects, and to have as broad a purpose as the American University at Beirut. Though five of the seven who signed the first prospectus were connected with the Presbyterian mission board, they made their plan in an interdenominational spirit. There were many missionary societies operating around Canton and all needed well-trained workers for their growing churches and elementary schools, and for contact with the well-to-do classes, who have always been so hard to reach through evangelistic work alone. South China, moreover, needed leaders of Christian faith and ideals in every sphere of life.

Dr. Happer had received a petition from no less than four hundred Chinese, including the most prominent officials, scholars, gentry and merchants of Canton, requesting that a high grade school be started under joint American and Chinese auspices; and in 1898 President Wisner received a petition signed by fifty-four pastors, licentiates, teachers and elders of all denominations in and near Canton urging that the College be maintained in Canton to serve the church as a whole.

Mr. Henry Martin, Dr. Happer himself, and others formed the initial fund, and the school was incorporated under the laws of the state of New York in 1893. For a time the Trustees owned the property and carried on the school of the Presbyterian Mission, at Fati, but in 1898 they resold this property to the Mission, and the next year started a separate school with Rev. O. F. Wisner as president. This was moved to Macao during the Boxer disturbances and remained there four years while the small rice fields, bamboo groves, ponds and innumerable grave plots near Canton, on which the College could be built, were gradually being acquired.

A part of the original fund was invested in Martin Hall, a large three-story classroom building, ant-proof and fire-proof from cellar to roof, the first of its kind in China. For four years more the College waited for its second permanent building. Then in 1909 came a dormitory from Chinese friends who had proved to themselves the worth of the school, and this was rapidly followed by other buildings, until the sums specially contributed by Chinese toward the upbuilding of the institution amounted to hundreds of thousands of dollars.

About 1909 American friends began giving residences for the staff, a water system, etc., and construction has gone forward without interruption, even by the European war. The most interesting, and most important, of the buildings erected in recent years are Grant Hall, the splendid administration building provided by Mrs. J. S. Kennedy in 1915, the auditorium and Christian Association building given by Mr. Ambrose Swasey, the Infirmary, and later the Guest House, both given by Mr. Ma Ying Piu, and the new dormitories for students in the two Colleges. The generosity of these and many other liberal givers is specially remembered each year on Founders' Day, an occasion when it is possible, too, for the whole College community to express its gratitude to the one who has had a larger share than any other in making the present institution, Mr. W. Henry Grant, for twenty-seven years the untiring Secretary of the Trustees.

The fifteenth anniversary of the establishing of the college on its present site was celebrated by a Pageant on November 29, 1919. More than four thousand guests were entertained and given every facility for seeing the material growth and future prospects of various departments.

More important however than grounds and physical equipment to any institution are those less tangible but no less real assets of purpose, ideals, courage, wisdom and organization. The declaration of the College was as follows: "The purpose of the Trustees of Canton Christian College is to establish in Canton and adjacent territory in China, an institution of learning of the highest standards of educational efficiency, under Christian influences." In striving toward this end many problems new and peculiar are met, apart from such as accompany ordinary educational work. That progress in these lines should be commensurate with growth in buildings and organization has been possible only through the exercise of great wisdom by both the authorities in New York and the workers in the field. The plant is used to capacity, and so far as those directly interested in the work may judge, the measure of educational result in the various schools is fairly indexed by the physical growth of the institution.

The Elementary School, started in a near-by village as a Student Christian Association enterprise, was transferred to the campus and became a regular model department. It is now accommodated in a self-contained unit of six buildings, built with funds provided by Chinese friends, in its own section of the campus.

In the interest of establishing high standards all along the line, and as a foundation for its own collegiate work, the Canton Christian College felt from the first the necessity of maintaining a strong secondary school. Indeed thus only, through a Middle School, did the college department become a possibility. And now, even with encouraging numbers of college applicants coming from the mission schools and elsewhere, the adequate development of the Colleges of Arts and Sciences and of Agriculture must for many years still depend largely upon the feeding capacity of the Canton Christian College Middle School. In addition, however, to preparing students for college, the Middle School aims to give an all-round training, and to meet the needs of those who must go out into active life without further study.

While the activities of the Christian Association have been steadily expanding and several dependent village schools opened, the increasing number of those who have joined the Christian church while students has been a source of great encouragement.

In athletics the students have won an enviable prestige among Canton and Hongkong schools, besides excavating with their own hands a large swimming pool near the river, an unfailing source of physical benefit as well as real enjoyment.

The London Missionary Society in 1915 set apart one of its workers to become the professor of religion in the College. In 1922 the Wesleyan Methodist Missionary Society made an arrangement to furnish its representative on the staff of the College, and he

has taken up residence on the campus. This is the most striking though not the only way in which the missions have sought to cooperate. It is to be hoped that the action of these two missions will be followed by similar steps on the part of others.

In 1907 an agriculturist joined the staff, and school and commercial gardens were started. From this developed numerous agricultural projects including a dairy and special courses in the College of Arts and Sciences. In 1921 the College of Agriculture was organized under a separate Board of Managers which meets in Canton and which is responsible for its growth and development. The Kwangtung Provincial Government makes liberal grants to the College of Agriculture, and the balance of its budget is financed by other Chinese friends. Various western interests, including the Pennsylvania State College and Kansas State Agricultural College groups, are fostering the development with both technical and financial assistance. Important developments are well under way in agricultural instruction, research, extension and industries including sericulture and canning.

Chinese from the province of Kwangtung, in greater degree than those from any other part of China, have scattered to the four corners of the world. From those far countries they have wanted to send their children back to China to be educated in the Chinese language and literature, but the usual schools could not receive these irregular students. The Canton Christian College has sought to meet this need by organizing its Overseas Chinese School (華僑), in which boys may be taught the Chinese language needed to enable them to enter one of the sub-collegiate schools or one of the Colleges. Here boys from Peru and India, New Zealand and Siam, England and the Dutch East Indies, America and Australia, and a dozen other countries study together the language of their fathers. Nearly two hundred of the students in the Colleges and sub-collegiate schools have come from abroad to study at the Canton Christian College.

So far more than two hundred students have gone from the Canton Christian College to American and European universities. The aim, however, is to prepare students at Canton to give as effective service to their country as if they had studied abroad.

In 1916 changes were introduced providing for a College proper, with a student life distinct from that of the Middle School, so that the nucleus of college students which had existed for many years then became a true college community. This phase of the work of the Canton Christian College is being emphasized so as to meet the pressing need in South China for men of the highest training to become the teachers and leaders of their people.

A great step forward in the unification and strengthening of education in the province was taken in January 1920 by the Canton Missionary Conference and the Kwangtung Christian Educationa

Association in projecting a system of University Colleges. In the Program of Advance then adopted the following recognition and recommendation were made: "Article 14. The College of Arts and Sciences of the Canton Christian College shall be the College of Arts and Sciences of the system. The Schools of Education and Agriculture should be developed on the basis of the work already under way in these departments of the Canton Christian College, which should also further develop its courses in Commerce (Business Administration) and introduce courses in Journalism. In order to enable the Canton Christian College the more adequately to meet the expanding needs of the Program of Advance, the various missions are urged to contribute to the Canton Christian College men specially qualified for work in its existing or proposed schools of Collegiate grade."

Reference to later pages of this catalogue will show that the College is now offering well-rounded four year courses in Agriculture, Business Administration, Chemistry and Education in addition to the courses in General Arts.

Buildings and Equipment

Soon after the nucleus of the present site was purchased the Trustees appointed an architect who came to Canton, studied the site and the needs of the College and prepared plans for the layout and architectural development of the institution. While this layout has been re-studied several times, additional areas brought within its scope, and some features modified considerably, there has been no departure from its principles.

An esplanade, two hundred feet wide, leads southward from the river up a gently sloping hill. At the top, dominating the esplanade and all its surroundings, will be erected, some day, a large chapel. In the spot which will be immediately in front of the pulp it of this chapel there now rest the remains of the Rev. Leung Fat (梁發), the first ordained Chinese preacher. Crossing this main esplanade some distance in front of the chapel is a transverse esplanade, two hundred and fifty feet wide.

The more important of the College buildings are to be placed along this transverse esplanade. The library at the eastern end, on the highest ground owned by the College, will dominate the whole group. Martin Hall, the first permanent building, is at the south-east corner of the intersection of these two esplanades. Grant Hall is east of Martin Hall. It is planned to erect the first of the science buildings and the agricultural building, part of the funds for which are already subscribed, on the west side of the main esplanade on the south side of the transverse axis. The museum and other science buildings are to be built on the north side of this transverse esplanade

The buildings for instruction in Education and the dormitories for College students are grouped on the hill side on opposite sides of the main esplanade. The Middle School dormitories are south-west of the main buildings, with the farm buildings for the College of Agriculture beyond them. The Elementary School group of buildings is conveniently located adjacent to the site of the proposed School of Education. The residences for members of the staff are chiefly in the south-eastern section of the campus.

All of the permanent buildings have been built of red brick, with re-inforced concrete floors, being thus both fire-proof and white ant-proof. Those which have been built since 1911 are roofed with green glazed tile, which were not available for use on private buildings in the days of the monarchy. An effort has been made to adopt the Chinese motif in architectural treatment wherever possible.

The more important of the permanent buildings are:

Martin Hall (1905) accommodates the laboratories of chemistry and physics, four classrooms for the college classes, a number of departmental offices and the Middle School office and classrooms.

Grant Hall (1915) is the administration building. In it are the offices of the President, Vice-Presidents and Deans, the Bursar, the College Architect, the College Bookstore, the Post Office, and the College Press, and temporarily the Library and four classrooms for College students.

Swasey Hall (1915) is the Students' Christian Association building. Besides the auditorium and offices on the ground floor there are rooms for games and the secretary on the second floor. The basement has classrooms for the night school classes, a small auditorium for the workmen's meetings and and Sunday school classes and a club room for office boys and servants. The main auditorium, seating 800, is used for chapel and Sunday services, for popular lectures and frequent entertainments on Saturday evenings.

Java Hall, the first of the dormitories built for the exclusive use of college students, accommodates 80 students and four teachers. During the vacations of 1920 and 1921 the students conducted a campaign for funds with which to build another college dormitory. The basement and two floors of this building were completed in 1922 and are now occupied by Freshmen. The girl students live in a dormitory on the eastern side of the campus. Besides these dormitories for college students there are four large dormitories for Middle School students, and Chang Hall (1921), a building especially designed for students returning from distant Chinese settlements to acquire an education in the homeland. All of these

dormitories, except that occupied by the girls, have been built with funds provided by Chinese friends.

The work in Sericulture is carried on in two fine buildings, the SERICULTURE BUILDING, given by the Silk Association of America, and the SERICULTURE EXTENSION BUILDING, given by Mr. Marcus Frieder. They are well equipt for the experimental work now being done in them, and for the production of disease-free silkworm eggs.

The INFIRMARY (1918) and the GUEST HOUSE (1922) are the gift of our first Chinese Trustee, Mr. Ma Ying Piu. The former contains consultation rooms, operating room, private rooms, two wards, an apartment for a physician and quarters for the nurses and servants. The latter is near the main entrance to the campus, and provides facilities for receptions and small social gatherings as well as accommodations for Chinese guests.

The FREEMAN METEOROLOGICAL OBSERVATORY is completely equiped for making daily meteorological observations. A recording tide guage is installed at the wharf on the river. The laboratories of biology, chemistry and physics, while very cramped, are equipped with the apparatus needed by the students taking the courses now offered. Fuller details of the equipment of the different laboratories will be found in later sections of this catalogue.

The College Library

THE COLLEGE LIBRARY, now in Grant Hall, has two distinct sections,—one in Chinese, and one in foreign languages, chiefly English. The English collection contains approximately 14,500 volumes and the Chinese books number about 34,000. Several departments are also equipped with books, loaned from the main collection.

The library aims to serve the needs of students in the various college courses. Besides the material in the library itself, faculty members customarily place their private libraries at the service of students, so that students have access to not less than 18,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, the social sciences and education, are unusually well-selected and valuable.

Over two hundred periodicals, weeklies and monthlies, general and technical, are kept on file, the more valuable ones being bound, and used for departmental research work.

Daily newspapers from Canton, Hongkong, Peking, Shanghai and Tokyo are taken. THE CANTON TIMES and the weekly edition of THE NORTH CHINA HERALD are bound for permanent shelving.

The foreign library is classified according to the Dewey decimal system, with the exception of the books on China, for which there is special classification. As far as available, Library of Congress cards are used, and further, the library subscribes to all cards issued relating to China, whether the books represented by the cards are in the College Library or not. This bibliography of China is kept in a separate file and, containing both author and title cards, affords an index to a large part of the existing foreign literature on China.

The library is a repository for publications of the Carnegie Institution of Washington, the Carnegie Endowment for International Peace, the United States National Museum, many departments of the United States Government and several administrations of the Chinese Republic, as well as for publications of other governments.

The Library is open both day and evening. Students have direct access to the shelves.

The College Museum

THE COLLEGE MUSEUM, located in Martin Hall, has a selection of articles and specimens of general and scientific interest. In the collection are over a hundred stuffed birds, 250 bird skins, about 500 specimens of woods, about a thousand coins, including many ancient Chinese coins, a number of fossil and mineral specimens, collections of local butterflies, moths, insects and reptiles, several industrial exhibits, and miscellaneous articles of archaeological, scientific and popular interest. The museum is equipped with proper cases for the preservation and display of its specimens.

The College Herbarium

THE COLLEGE HERBARIUM is the center for the study of the flora of the region which the college influences. Various agencies are at work with the college in assembling scientific and economic data concerning the plants preserved in the herbarium. The acquisition of local and literary plant names, and their relation to Chinese literature, has been an important phase of the undertaking. A Latin-Chinese index to the plants in the herbarium has been prepared by the college and photographed in the Office of Crop Physiology and Breeding Investigations of the United States Department of Agriculture.

The Chinese lists of names consist of more than 7,600 local varities of plants, about one-fifth of which have been collected and traced to their Latin equivalents.

All the material has been named by Prof. E. D. Merrill of the Philippine Bureau of Science, to whom the College is indebted, as also to Mr. Walter T. Swingle of the United States Department

of Agriculture, for the assistance in the organization of the herbarium. The collection now contains more than ten thousand sheets of Kwangtung plants representing at least three thousand species, of which about one hundred are new to science. Recent explorations in the island of Hainan have increased the known species of that island from three hundred and fifty to approximately eleven hundred, including more than eighty newly described.

Publications

THE COLLEGE has issued a few *text-books* in English and in Chinese and issues *special bulletins* upon scientific subjects. A list of these is given elsewhere in this catalogue.

南大 THE CANTON CHRISTIAN COLLEGE MAGAZINE, or NAAM TAAI MAGAZINE, a bulletin of information on college matters, is published quarterly in Chinese and is mailed to subscribers for $0.60 per year.

THE LINGNAAM AGRICULTURAL REVIEW is published in English twice a year. This is a technical and scientific journal covering research in agriculture and related sciences. The subscription price is $2.00 per year.

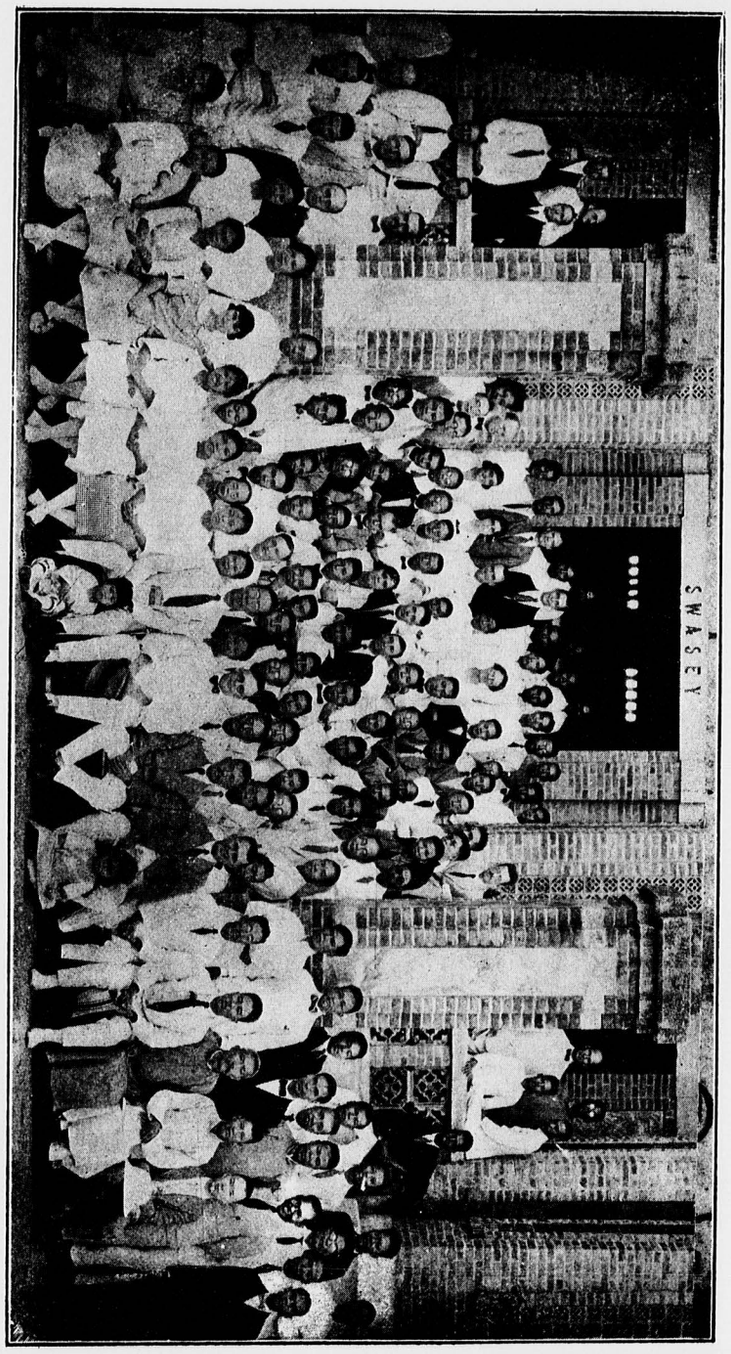
南風 NAAM FUNG is a publication in Chinese, of a literary nature carried on by the students. The subscription price is $1.00 per year.

經濟之研究 ECONOMIC STUDIES is the monthly publication, in Chinese, of the Students' Economic Association. It contains discussions of economic theories and present business conditions. The subscription price is $1.00 per year.

THE STUDENT CHRISTIAN ASSOCIATION issues a weekly news sheet (南大青年報) in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is $0.60 per year.

THE DAILY METEOROLOGICAL RECORD, a bulletin issued quarterly, gives a record of the meteorological observations made each day at the Freeman Meteorological Observatory, together with monthly summaries.

The College of Agriculture issues a popular agricultural monthly in Chinese, and an agricultural quarterly in Chinese besides The Lingnaam Agricultural Review in English.



ENTIRE STAFF OF CANTON CHRISTIAN COLLEGE. 1922-23

The following *bulletins* and *leaflets* are issued to give information about the school, and may be obtained by writing to the head of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

NAME	CHARACTER
Calendar	Chinese leaflet on dates, fees, entrance, etc.
Catalogue of Colleges of Arts and Sciences, and of Agriculture	English bulletin on courses, regulations, etc.
Catalogue of College of Agriculture	Chinese bulletin on courses, regulations, etc.
Middle School Catalogue	Chinese bulletin on courses, regulations, etc.
Elementary School	Chinese leaflet on courses, fees, etc.
Summer Session	Chinese leaflet on courses, fees, etc.
"Canton Christian College"	English booklet, illustrated. Price $1.00.

College Organizations

College Student Union

The College Student Union is the official organization of the entire College student body. It enjoys liberal powers of self-government and control of matters of general student interest. Its constitution provides for an executive committee, and special committees responsible for discipline, athletics, boarding and social matters. It elects its officers and committee-men each semester.

Student Christian Association

The Student Christian Association provides students with facilities for voluntary religious activities and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well equipped center for such purposes. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night schools for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall. The Association employs a General Secretary, publishes a weekly paper in Chinese, and an occasional newsletter in English.

Student Council

The Student Council is composed of the following members: the President of the Student Christian Association, the President of

the College Student Union, the Middle School Student Representative, and the President of the Canton Christian College or his appointee. Its function is to provide efficient means of conducting any affairs that concern the students of more than one school. It may, when necessary, call meetings of the students through the proper representatives.

Arts and Science Club

The Arts and Science Club is an organization of the Faculty and advanced students of the College, the object of which is to stimulate its members to keep abreast of modern scientific ideas and to encourage reports on original investigations.

Membership may include any of the English-speaking Faculty of the entire College. All other English-speaking persons on the campus including Freshmen, Sophomores, Juniors and Seniors, are eligible for associate membership. There are no dues.

Regular meetings are held once a month and special meetings are called from time to time to hear distinguished visitors.

Agricultural Society

The purpose of the Agricultural Society is to develop interest in the agricultural work of the College, and to promote agricultural education, investigation and extension in South China. Membership is active, associate, or honorary. The society meets on the first Monday of each month during the academic year.

Economics Association

The faculty and students of economics and business administration have organized the Economics Association to promote interest in and investigation of important economic questions. Monthly meetings are held and students and teachers wishing to join are welcomed. It publishes Economics Studies monthly during the scholastic year.

Education Club

An Education Club has been organized by members of the faculty and students of education to promote interest in and investigation of important educational questions. Teachers and students wishing to join will be welcomed and may always obtain information at the Education office.

Athletics

Students are expected to take regular daily exercise and playground space is provided that all may take part in athletic games. There are five foot ball fields, ten basket ball courts, four volley ball

courts, fifteen tennis courts, a swimming pool, and a running track available for use. The College has teams in the various athletic leagues in Canton, competes with Hongkong schools and is represented in each Far Eastern Olympic competition.

College Band

A band of twenty-five pieces is under the leadership of a specially trained member of the staff. Students wishing to join may obtain information at the office of the Dean.

College Bookstore

The College Bookstore, located in Grant Hall, maintains a stock of text-books and other school supplies required by students. These are sold practically at cost.

College Bank

The College Bank receives current and time deposits, and furnishes local bank facilities. Parents and guardians will find it convenient in connection with the handling of funds for students to send such funds to the bank with instructions regarding payments.

College Press

The College Press serves the College and community for job and book printing, both English and Chinese. Many of the English bulletins of the College, including this catalogue, are printed by the College Press.

Organization of the Schools

THE CANTON CHRISTIAN COLLEGE comprises three grades of schools: The Elementary school (7 years), the Middle School (4 years, including the College Preparatory year), and the Colleges of Arts and Sciences, and of Agriculture (each 4 years).

The Elementary School, housed in a series of six buildings of its own, and forming a complete and separate administrative unit, consists of a lower primary department of four years for boys and girls, and a higher primary department of three years for boys only. Covering the age of childhood from about eight to fifteen, it aims to provide an atmosphere of both home and school by giving each class and its two teachers a cottage as a family center for its life and study,

The Middle or Secondary School, corresponding to the high school or college preparatory in the United States, is a middle school for boys only and meets the special problems of the formative years beyond thirteen or fourteen. Girls may be admitted into the fourth year (College Preparatory) class.

For administrative purposes the fourth middle school year, which has for some time been called the *Sub-freshman* year under the administration of the College of Arts and Sciences, is temporarily organized as a separate unit, called the *College Preparatory Class*. At present there are, therefore, only three years under the Middle School administration. It is expected that after July 1, 1926 this class will be directly under the Middle School administration. The Middle School gives a certificate to those who have completed the four-year course of study.

The College of Arts and Sciences

This is open to both men and women and comprises four years which are called Freshman, Sophomore, Junior and Senior respectively.

In general, the purpose of the College of Arts and Sciences is to fit students for definite lines of intelligent leadership and service in China. With this end in view, the College offers instruction in seven groups of associated studies, each of which is planned to prepare students to meet successfully problems now demanding study and solution in their country. A more complete and detailed statement of these courses is given in a subsequent section.

The College of Arts and Sciences furnishes students a collegiate education of the thoroughness and general excellence of that to be obtained in the colleges and universities of foreign countries. The student has the advantages of keeping in close touch with his own country and of correlating his education with the economic, social and general scientific needs of China.

It is felt that Chinese students can be of largest service to their country if their collegiate education is fully provided in China; that only the occasional student seeking further research will need to go abroad for study, and then only for graduate work of a highly specialized character.

The Canton Christian College offers unusual facilities in its College of Arts and Sciences. Each student is under the special care of a *faculty advisor*, with whom the student can confer freely, not only on academic matters but on personal affairs as well. Each student should feel that his advisor is genuinely interested in his welfare and it is to the advantage of the student to seek his advice and help.

The *college physicians* attend all students who may require medical attention and give each student a thorough medical examination annually.

For other details as to the College of Arts and Sciences, see the appropriate sections that follow in this catalogue.

The College of Agriculture

This is also open to men and women. The number of classes, purpose, scope and general facilities parallel those recorded above for the College of Arts and Sciences, but relate wholly to agriculture. The College offers courses chiefly in five departments of agricultural instruction. The divisions of research and experiment, extension, and industry provide the student with unusual opportunities to apply his learning to conditions as they exist in China. Herein is one of the greatest advantages of taking undergraduate agricultural training in China rather than abroad.

For other details as to the College of Agriculture, see the appropriate sections that follow in this catalogue.

Summer Session

In addition to the regularly scheduled work of the academic year, a Summer Session of one month is held. This consists, firstly, of courses not offered during the regular session, for those desirous of extra credits, and secondly, of supplementary short courses of both College and Middle School grade for those who are deficient in entrance requirements or in class standing. Further information on the Summer Session is obtainable from the Dean. A special leaflet is issued in June of each year.

Related Schools

In addition to the above, there are a number of related schools which are of interest in any consideration of the Canton Christian College system. The Western School, organized in 1919, provides instruction for foreign children. The curriculum for the eight grades follows that of the Horace Mann School, New York City.

Two of the schools from which students enter the Sub-collegiate schools of the Canton Christian College are known as branch schools. The Tung Chi School (通志) in Canton is under a board composed of representatives of the Tsung Kwai Sun Street church, the London Missionary Society and the Canton Christian College. The church assumes financial responsibility for current expenses, the Mission provides the buildings and the instruction is supervised by the College. It has classes in the grammar grades and First Year of Middle School. The Hongkong Branch School is under a board composed of former students in the Canton Christian College. Its course is six years long, covering the lowest grammar grades only. Both schools are growing rapidly.

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College of Arts and Sciences
College of Agriculture
Admission

APPLICATION FOR ADMISSION to either the College of Arts and Sciences or the College of Agriculture is made to the Dean of Men, who acts as Director of Admissions and Registrar for both Colleges. (For information regarding admission to the Preparatory class see the section devoted to that class at the back of this catalogue.) This should be done some time in advance of the beginning of the academic year so that the applicant may be advised in case admission appears improbable or impossible. Every intending student should procure a blank application for matriculation and fill it out completely, using the same name under which he has been enrolled elsewhere. (While a student is here he must adopt the standard of romanized spelling used by the College, and must not change his name during his period of study.)

An applicant must have a clean record from the school or schools previously attended, attested by a certificate indicating honorable dismissal or withdrawal. He should furnish a detailed statement of work done in middle school, certified by the principal or proper officer of the school from which he comes. Blanks for this purpose may be secured on application to the Dean. New students who fail to present adequate credentials can be admitted only provisionally.

New students may be admitted either by examination or by certificate from an accredited school, or partly by certificate and partly by examination, but in any case the minimum entrance requirements must be met in full. It is expected that all applicants will have the training and maturity of graduates of middle schools. Exceptional students who have no middle school certificates, but who are well recommended, may be admitted to the entrance examinations.

Applicants should realize that unless they have studied part of their middle school work in English in addition to having studied English as a subject they will have considerable difficulty in pursuing a College course in which English is the medium of most of the instruction. Experience has shown that, as a rule, only those who have studied at least their western History, most of their mathematics and one, if not two, year's work in science, and one additional course, through the medium of the English language are prepared to continue their studies in English. The College reserves the right to require of any and all applicants an intelligence test, and an examination in English, both oral and written, regardless of the school from which they come, or the credentials presented, and to take the results into consideration in ranking them. The

intelligence test may include questions on China's History, Geography and Literature as well as on more general subjects.

Admission to the Freshman Class

Applicants for admission to the *Freshman Class* should note that the entrance requirements vary somewhat, depending on the kind of work, or "group," which is to be studied after entrance. Some subjects are required of all students, others are required because they are prerequisite for certain subjects which are to be studied in College, and still others are optional. A student who does not present the subjects prerequisite for his chosen line of work will be required to make up his deficiencies, as soon as possible after matriculation, and this will probably mean lengthening the time required for completing the college course.

The following subjects are required of all students:

CHINESE Geography of China; History of China; Chinese Literature and creditable skill in Chinese Composition (國文). It is assumed that the applicant will have studied the Chinese language, literature and composition for at least eleven years as is done in modern schools.

ENGLISH 1. Grammar, sentence structure, common idioms and composition equal in amount to Book IV in Graybill's "Mastery of English" series.

2. Two hundred to three hundred pages of English reading of approved Fourth Year Middle School grade, with thorough study of content, vocabulary, authors and some fundamentals of style.

3. Readiness of speech and understanding of spoken English sufficient for profitable participation in recitations carried on through the medium of the English language.

MATHEMATICS Algebra, as far as quadratic equations; Plane Geometry.

HISTORY Any two of the following: History in brief of one western country; Ancient and Medieval History; Modern History.

SCIENCE Geography of the World; Elementary Science, including Physiology and Hygiene; Physics, including a good laboratory course extending throughout one year. Chemistry may be substituted for the Physics but that is not recommended. Applicants for admission to courses in General Arts, Education or Business Administration may substitute two laboratory courses, each of which has extended for one semester only, for the year course in Physics. In every case laboratory note-books, properly certified, must be submitted in order to secure entrance credit in a laboratory science.

The subjects required for admission to particular courses are the following:

In addition to the above, applicants for admission to the College of Agriculture must present Intermediate Algebra (from quadratics to progressions and logarithms, inclusive).

Applicants who intend to choose a major in science (enrolling in the Natural Science, Chemistry or Pre-medical groups), and those who wish to receive the special certificate offered on graduation from the Business Administration group in the College of Arts and Sciences, must present in addition to the above specified requirements the following subjects: Intermediate Algebra (from quadratics to progressions and logarithms, inclusive) and either Plane Trigonometry or Solid Geometry. These two subjects may be required of all applicants for admission to the Business Administration course after after July 1, 1924.

Optional, or elective, subjects:

In addition to the subjects mentioned above, the applicant is expected to offer enough supplementary subjects to prove that his middle school course was well rounded and studied in its entirety. The only restriction is that these subjects must be of middle school standard. A fair knowledge of the Bible will receive due credit. Each case will be judged on its merits. The Dean will welcome correspondence on individual cases.

Admission on Advanced Standing

To enter with advanced standing, in addition to satisfying the requirements for admission to the *Freshman Class*, the applicant must present a transcript of work of collegiate grade done elsewhere for which credit is desired. No credit can be granted for work unless it is more advanced than any offered in the *College Preparatory Class*. The transcript should show clearly the courses pursued, texts or description of courses, hours per week, length of hour, number of weeks, whether year course or half-year course, grade obtained, basis of grading and pass, credits allowed, etc., and must be certified to by the proper officer of the institution in which the work was done.

Accredited Schools

Schools with standards similar to those of the Middle School of the Canton Christian College may become accredited schools and recommend their students for admission without examinations. This in no way hinders the school from being accredited similarly with other Colleges.

The similarity of standards may be determined partly by periodical inspection by a representative of the Canton Christian College, and partly by the records made by the graduates of that school in the entrance examinations and after admission to the College.

Once a school has become accredited, in order to have its graduates admitted, from year to year, without entrance examinations, it needs to observe only the following conditions in order that the name of the school may be published as accredited in the next issue of the College Catalogue.

(1) Its graduates recommended the previous year must have shown that they were adequately prepared.
(2) Not later than January first of each year a statement of the work done by the next graduating class during its four years' course should be submitted for approval to the Dean of Men, in order that inspection may be made.
(3) Each graduate applying for admission must be specifically recommended by the principal as being capable of doing College work. The recommendation may cover part or all of the subjects studied in the middle school. An applicant for admission who is not recommended as qualified in any particular subject will be expected to take an entrance examination in that subject. The principal should not recommend a student who has received a bare "pass".

The accredited schools, whose graduates may be recommended in accordance with the above conditions for admission without entrance examinations to the Session of 1923-1924 are:

C.C.C. Middle School
Haigh College
Kwong Yit Academy
Pooi To Middle School
Pui Ching Middle School
Swatow Academy
True Light Middle School
Union Middle School

Senior and Junior Local Certificates

Students who have passed the senior local or matriculation examination of the University of Hongkong or who hold certificates of the senior Oxford or Cambridge local examinations, will be admitted to the Freshman class without further examination on all subjects except Chinese covered by the matriculation or senior local certificate.

Entrance Conditions

Applicants deficient in one or two subjects may be admitted with conditions, but such conditions must not exceed two in number and must be removed within one year. Special tutoring may be secured. Arrangements will be made for graduates of schools in which English has not been the medium of instruction in western subjects, for special tuition in that subject in order that they may acquire facility in the use of English as soon as possible.

Matriculation and Enrollment

ON FIRST ENTERING either College the applicant will be given an *application form*, which he may fill out assisted by the Dean of Men, or his probable Advisor. A matriculation fee of $1 H.K. must be paid to the Bursar. The applicant will then be examined and classified by the Dean and will secure from the Dean or his Advisor an *enrollment card*. In consultation with his Advisor or Dean the

student will indicate the particular courses for which he expects to enroll. When this card has been signed by the Advisor and Dean, the student will take the card to the Bursar for the payment of his fees. One portion of the card, on which will be indicated the courses for which the student has registered, and which will bear the signature of the Advisor and Dean, and the receipt-stamp of the Bursar, will be returned to the student by the Bursar. The student will consult the *roster* or *schedule of classes* found on the bulletin board, and determine his own schedule for each week.

The acceptance of an applicant by a College for the first time is called his *matriculation*.

When a student enters the College after having been matriculated or re-enters the College as an old student the act is called his *enrollment*.

On going to classes for the first time, the student should exhibit his receipted enrollment card to each teacher, who may enroll him as a member of the class. In case the student is not able to present a receipted enrollment card the first time, he must show a statement from the Bursar to the effect that the payment of fees has been arranged for. *No credit* can be given for work done unless a student is properly enrolled in a class, nor can any student be permitted to attend classes without having been properly enrolled, except by special permission of the Dean. Therefore it is to the interest of each individual student to make sure that he accomplishes his own registration each semester in each class.

No change can be made in the enrollment schedule of a student after he has once enrolled, except by permission of both Advisor and Dean. As this permission will be given only for good reasons that could not ordinarily have been foreseen at the time of enrollment, students should make very sure of their schedule of courses at first enrollment. Permission to change courses will not be given later than ten days from the date when the student enrolled, and no course may be dropped later than six weeks from the beginning of the semester. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Dean.

Students enrolling four weeks or more after the opening of a semester cannot receive full credit for work done during that semester, even though they are able to make up all work lost.

Unless specially excepted, a student must enroll in one of the prescribed groups of courses. A student may elect any subject open to his class and suitable to his line of study, provided, of course, he shall have had the prerequisite courses.

No student will be permitted to continue in the study of any subject, if the instructor in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. Any instructor may at any time exclude from his course any student who in his judgment has neglected the work of the course.

Credits and Standing

A STUDENT IS RANKED according to the number of credit-units he has secured. A student having less than 30 credit-units shall be ranked as a *Freshman*, one having 30 but less than 65 as a *Sophomore*, one having 65 but less than 100 as a *Junior*, and one having 100 or more as a *Senior*.

Credit may be given for work, without regard to how small an amount is done at one time, provided it be of approved quality. All credit is given by points or CREDIT-UNITS. Credit-units are allowed for courses passed (that is, for courses attended with work completed and examinations passed) at the rate of one credit-unit for each hour of class work, either lecture or recitation, or each two hours (or in certain specified cases, three hours) of laboratory work per week per semester. Fractional credit-units are not granted. In addition to credit-units, students are required to secure GRADE POINTS as defined below.

At least fourteen credit-units must be attempted each semester, except in case of illness or when a student is doing other work of recognised character. In his first semester of residence a student may not enroll for more than nineteen credit-units of work, except in the Pre-medical group which has special requirements. After the first semester in residence the maximum number of credit-units for which a student may enroll is fixed from semester to semester as follows:

Students whose average in any semester is between 60 and 70 or who have failed in two subjects, may elect only sixteen credit-units the following semester, regardless of the group in which they are enrolled. Students whose average in any semester is between 70 and 80 may elect up to eighteen credit-units the following semester. (Students in the Chemistry and Pre-medical groups who have an average of 70 or above in any semester may take all the prescribed courses in their group the following semester.) Students with an average between 80 and 90 may elect up to twenty credit-units, and those with an average of 90 or above may elect up to twenty-two credit-units the following semester.

PART-TIME TEACHERS Each clock hour of teaching is counted as equivalent to one hour of college study (one credit-unit), and students engaged in teaching may not undertake more hours of teaching and study combined than the number of credit-units to which they are entitled by their record of the previous semester. Credit for practice teaching may be obtained in addition to the above.

Not more than six credit-units may be obtained in one semester by special extra-class or reading courses, and this privilege is limited to Juniors and Seniors. Such credits may not be given in excess of

the maximum number of credit-units allowed. Not more than twelve such credit-units may be offered for a degree.

Students who have completed at least one year's work in residence may secure credit for satisfactory work done by visits or by correspondence (as "non-resident" students) but not over twenty credit-units thus obtained may count toward a degree. Students wishing to take work in absentia should register for it at the beginning of the semester (or Summer Session), as is done for work to be done in residence, and such work should normally be completed by the end of the semester, (or, in case of summer work, before the opening of the fall semester). If at the end of the semester (or Summer) the work is uncompleted, but the student can show that the nature of the work has made it impossible to finish it within the time limit, the Dean, in consultation with the instructor in charge of the work, shall have power to extend the time limit as much as may be necessary.

The passing grade is a semester mark of 60 or higher.

GRADE POINTS are allowed as follows:

Excess Credit. Students to the number of 10% to 20% of those enrolled in any course shall be designated by the instructor for Excess Credit, entitling them to grade-points to one and one-half times the number of credit-units in that course.

Full Credit. All students passing a course who are not specially designated for Excess or Reduced Credit, shall be given Full Credit, or grade-points equal to the number of credit-units in that course.

Reduced Credit. Students to the number of 10% to 25% of those enrolled in any course shall be designated by the instructor for Reduced Credit entitling them to grade-points of one-half the number of credit-units in that course.

Failure. A student whose final grade in any course falls between 50 and 59 shall be recorded as failing, and be entitled to no credit, either in credit-units or grade-points, for the courses concerned. Re-examination will be given only for good cause, at the beginning of the following semester, and by special permission of the instructor given immediately after the original examination.

Penalty Failure. A student whose final grade in any course falls below 50 shall be recorded as a Penalty Failure, and minus two (-2) grade-points shall be charged against his record unless the work of that course is later successfully passed by him.

Small Classes. In classes with an enrollment of ten or less, Excess and Reduced credit shall be awarded only at the discretion of the instructor and Dean.

Large Classes. Classes divided into two or more sections for the same course may, with consent of the Dean, be treated as a single class in the awarding of Excess and Reduced Credits.

Old Students. Students who have completed a portion of their college work prior to the session of 1922-23 shall be deemed to have qualified for any certificate or degree when they have completed the number of credit-units required, and have earned, in addition, grade-points equal to the number of credit-units yet required of them at the time of the adoption of this rule. The same shall apply in the case of students admitted with advanced standing from other institutions.

As a rule the College expects to give any course offered if a sufficient number of properly qualified students apply, but it reserves the right to alter or withdraw any course.

Fees, Deposits and Expenses

FEES

All fees are in Hongkong Currency and all except Laboratory Fees are to be paid before residence is taken up.

	1st Sem.	*2nd Sem.*	*Year*
TUITION			
Regular students	$ 75	$ 50	$125
Students entering in February pay		$ 62.50	
LABORATORY (due within 5 days after registering for course)			
Biology, according to course taken, per semester, either			$5 or $10
Physics			15
Chemistry, according to course taken, varies from			$10 to $30
Home Economics, each course			5
The classes in cookery also pay for food actually supplied, approximately $6.00 per semester.			
TRIPS AND CAMPING (approximate)			6
QUARTERS	*1st Sem.*	*2nd Sem.*	*Year*
Usual space	$25	$25	$50
Special quarters, when available	15	15	30
BOARD	33	33	66
LAUNDRY	6	6	12
STUDENT UNION	3	2	5
REGISTRATION FEE (Required of all applicants for admission to the College)			1
GUARANTEE DEPOSIT			10
GOWN (on entrance and whenever needed)			8
SPECIAL EXAMINATIONS			
Entrance examination not at a scheduled time			4
Re-examinations except the first, or special, each subject			2

DELINQUENCY FEE

A student who is late, either in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of $2 a day with a maximum total of $10.

B. A. or B.S. DIPLOMA FEE

A fee of $7.50 U. S. currency is required to cover the cost of the B. A. or B. S. in Agriculture diploma from the Regents of the University of the State of New York.

MARRIAGE AND FEES

It is considered that a student who is married while his name is on the school rolls is more nearly able to pay the costs of his instruc-

tion, and hence shall pay double tuition. New students, if married, shall be liable to the same double charges unless excused by special action.

SPECIAL STUDENTS

An additional tuition fee of from $20 to $50 per semester is charged any student requiring special tutoring or care, subject to the decision of the Dean.

A special student studying less than full time may pay tuition according to the number of credit-units for which he is enrolled at the rate of $5 per credit-unit.

OTHER EXPENSES

Besides his college fees, the student will need to provide for a number of other expenses, the amount for which will vary with his personal habits. By practising economy it is possible for a student to maintain himself at the College for very little more than the cost of his college fees, board, room-rent, laundry, clothing, and necessary travel to and from his home. Books will cost about $30, but more may be spent advantageously. The College provides a sufficient amount of good and nourishing food for all students, which is covered by the boarding fee, but some students buy "extras" which increase expenses. Clothing is an item that will vary greatly with individuals.

In addition to these items, allowance should be made for class dues, contributions, boat and ricksha fares, medicine, stationery and postage, and other miscellaneous incidentals. $25 would be a low allowance for these incidentals for the school year, $50 would be moderate, and $100 would be liberal. Students should provide their own furniture except those who are assigned to Java Hall and the new dormitory.

No student should be deterred from entering or continuing his study at the College because of inability to meet the expenses. Special provision is made for scholarship aid and opportunities for self-help are also available.

SUMMARY OF EXPENSES

FRESHMAN TO SENIOR	*1st Sem.*		*2nd Sem.*		*Year*	
	Low	*High*	*Low*	*High*	*Low*	*High*
Fees	$138	$157	$106	$116	$244	$273
Laboratory	5	25	5	25	10	50
Other Expenses					50	200
				Total....	$304	$523

Students who matriculate after the first semester has closed, pay fees, except tuition, at first semester rates, and in addition gown fee and deposit. The tuition is one-half the charge for a year.

Financial Aid for Students

EMPLOYMENT BUREAU. The College maintains a student employment bureau to assist students desiring to earn a portion of their expenses and to secure positions for graduates and other students. Others desiring a position in a school in this province would also do well to apply.

The average student who undertakes outside work is not able to carry a full schedule of studies and should allow a longer period in which to complete the college course Advanced College students are often engaged as part time teachers in the lower schools, which gives them the valuable experience of teaching under expert supervision and enables them to meet a part or all of their expenses.

An excellent opportunity is also offered in the College of Agriculture to students who have completed one or two years of the course and who are willing to spend the remainder in part time employment. The enables them to secure the much needed experience for success in this field.

STUDENT LOAN FUND. A small fund has been accumulated by gifts from students, teachers and friends from which loans are made to deserving students in need of help From time to time a collection is taken at the Sunday Service and turned over to this fund. Students, teachers, churches, missions, missionaries and other friends are urged to contributed to it. The Bursar takes care of the fund.

Application for loans from this fund should be addressed to "The Manager of the Student Loan Fund." Late applicants may be disappointed. Not more than $50 is loaned to one student in one year. The Manager will consult with the Student Aid Committee and the Dean and give an order to the Bursar. A student who is granted such a loan must sign a note promising to repay as soon as he is able. Loans bear interest at 6 per cent. per annum from the time the student leaves the school and interest is compounded if not paid annually. The Bursar holds the notes, and interest and principal should be repaid to him.

COLLEGE LOAN GRANTS. Every student wishing to enter the College, or to remain in the institution but lacking the money to do so, should consult the Dean of his College. The College has a limited sum with which to help such students. Blank forms will be supplied and the applications carefully considered by the Student Aid Committee. The amount of aid granted will be determined largely by the student's scholastic standing, but due weight will be given to his diligence, character and non-scholastic activities.

The College will give special consideration to the applications for aid of sons or daughters of a Christian pastor or mission worker. Their standing is, however, taken into account in determining the amount of all loan grants. In any case the Student Aid Committee

cannot make grants to exceed the total loan funds available for the year.

A part of the sum available for these grants comes from endowed Scholarship Funds designated as the Yew Fun Tan (譚有芬), the Henry Martin, the C. T. B., the Knipp, the Cook, the Edmunds, the Smith and the Laird funds. Particular students are named each year as recipients of loans from these funds.

M. T. Tang Scholarship in Business Administration.

Through the generosity of Mr. M. T. Tang, (鄧文莊) of Canton, a former student, who has donated $1,500 H. K. currency for this purpose, special scholarship gifts are made to deserving students in business administration in grants of $50 each, not subject to the loan conditions which apply to College Loan grants. Awards may be made to more than one student in any given year, and the same student may be awarded more than one unit. Special application should be made to the Dean by any desiring aid from this fund. A competitive examination may be required before an award is made.

Class of 1923 Scholarship.

The students who received their one-year junior certificates in 1920 and passed on into the Sophomore class presented to the College a scholarship fund of $1,000 H. K. currency. The income will be used as scholarship gifts. As long as members of the class remain in the institution, they are to be given preference in the grants made possible by this scholarship.

Agricultural Scholarships

In addition to the general scholarships there are a number of scholarships open only to students in the College of Agriculture. Certain of these scholarships are not subject to the loan conditions which apply to ordinary College Loan Grants, but the recipients are expected to render any service to the College of Agriculture which will not interfere with their scholastic work. The College of Agriculture provides a number of working scholarships for students who will engage in part-time work, in connection with field or office work for which they receive payment scaled somewhat in advance of the non-student labor wage.

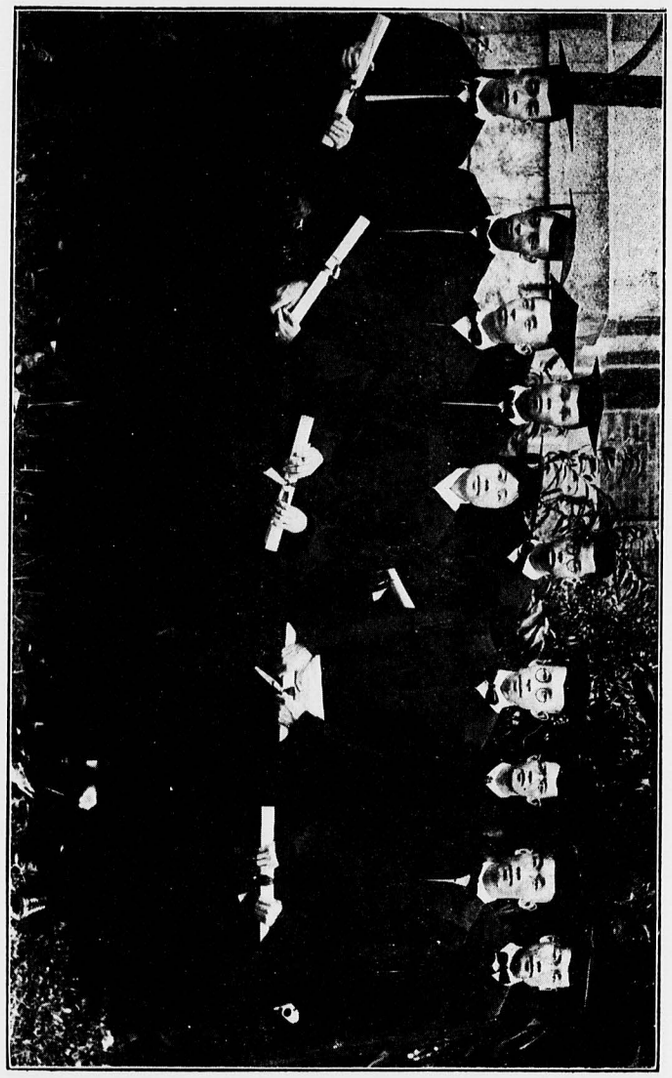
A limited number of scholarships are available for the one year students.

Chue Pik Tung Agricultural Scholarships.

Through the generosity of Mr. Chue Pik Tung (朱璧東) of Canton, a sum of $3,000 has been provided for special scholarship aid to students of agriculture.

China Agricultural Research Association Scholarships.

Two scholarships are also provided by the members of the China Agricultural Research Association (中華農學求新會) valued at $200 annually.



GRADUATES. JUNE 1922

HOH LEUNG WAN IU PAN WONG CHAAK PO KOO KWAI FAN CHAN MAN CHUE
KWOK MAN PAN KAM NAAI KWONG KO TING TSZ TAAM CHEUK WOON
FUNG LAI WING. MISS

OPPORTUNITY FOR ESTABLISHING SPECIAL STUDENT AID FUNDS.

Those who are interested in assisting individual students are invited to give to the College memorial funds, the interest on which is to be used for loan grants or scholarship gifts. Annual gifts to the College of $50, $100, $150 or $200 will also make it possible to continue a liberal policy in student aid. This is especially important in the College of Agriculture because many of its students will be drawn from the rural class.

Rules Regulating College Loan Grants

Awards of loan grants are made for the full academic year, with the understanding that aid will not be continued in the second semester, unless the student has maintained his scholastic record and is regarded as worthy.

Every student receiving a loan grant is required to sign a note in recognition of the same, to be repaid as follows:

1. Any student finishing the College course shall be considered to have repaid two-thirds of his indebtedness at the time of graduation from the College.

2. All indebtedness not discharged in the above manner shall be repaid at the annual rate of one-tenth of the amount due when the student left school. The first payment will be due one year from date of leaving school. No money payment is necessary while the student is studying for more than half-time in another school.

3. All overdue payments shall bear interest at four per cent. per annum.

Prizes

HONOR PRIZE, awarded annually to the student who ranks highest in scholarship, deportment and attendance.

COLES SCIENCE PRIZE, awarded annually to the Freshman who attains the highest general average of scholarship in science, on the basis of all science work done in his College Preparatory and Freshman years.

COLES MATHEMATICS PRIZE, awarded annually to the student who has done the most meritorious work in mathematics during the year in Freshman or College Preparatory courses.

ATHLETIC PRIZE, awarded annually to the student who has done the most during the year to promote athletics.

CHAMBERS CHINESE ESSAY PRIZE, the gift of the Rev. R. E. Chambers, D.D., Canton, is awarded annually to the student submitting the best essay in Chinese.

SCHAUFFLER ENGLISH PRIZES, are awarded, one for the best work in required English, and one for the best work in an elective course in English.

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AGRICULTURAL SCHOLARSHIP PRIZES, the gift of Prof. C. O. Levine, are awarded annually to students in the College of Agriculture as follows, the sums being paid in Canton currency:

1, $50 to the student ranking highest in AGRICULTURE.
2, $30 to the student ranking second in AGRICULTURE.
3, $30 to the student ranking highest in LIVE STOCK JUDGING.
4, $20 to the student ranking second in LIVE STOCK JUDGING.

Certificates

HONOR CERTIFICATES

A student who maintains an exceptionally high standing may be declared an honor student and receive an Honor Certificate at the commencement exercises of the year. The number of such honor students in either College may not exceed five per centum of the total number of students enrolled in that College during the year. The awards are made chiefly on the basis of scholarship, but due weight is given to diligence, non-scholastic activities and personal character.

CERTIFICATES FOR WORK COMPLETED

Certificates are offered in Education to those students who have completed certain courses and are qualified to hold positions as teachers of general or special subjects in Middle Schools, or as Principals or Supervisors of Lower Middle Schools. Details will be found in the section describing the courses in Education.

Certificates are offered in Business Administration to students who have done certain work in addition to that required for the B. A. degree. The details will be found at the beginning of the section describing the courses in Business Administration.

Students who wish to pursue professional study elsewhere will be given complete and detailed certificates for the work done at this College through the last semester they have completed, and every attempt will be made to secure for them proper standing at the school to which they go. Ordinarily they may transfer to corresponding class in American universities in similar courses without loss of standing.

Transcripts of academic records, after the first, will be charged for at the rate of $2.00 H. K. currency each.

JUNIOR CERTIFICATES

A two-year Junior Certificate is awarded a student who has to his credit sixty-five grade-points, such a number of credit-units as may be required for his group, including all required courses, and who has no entrance conditions.

Graduation and Diplomas

DEGREE OF BACHELOR OF ARTS
DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE.

CREDIT. In order to qualify as a candidate for graduation from the College of Arts and Sciences and for the Degree of Bachelor of Arts, a student must have completed 140 credit-units* of collegiate work, including those prescribed for the group in which he seeks his degree, and must, in addition, have to his credit grade-points to the total of 140.

In order to qualify as a candidate for graduation from the College of Agriculture and for the Degree of Bachelor of Science in Agriculture, a student must have completed 140 credit-units* of collegiate work, including those prescribed for the degree, and must, in addition, have to his credit grade-points to the total of 140. He must also present a thesis which has been approved by the Dean.

RESIDENCE. Candidates for either degree must be students in good standing and must have been in residence for at least two semesters immediately preceding candidacy. While it is recognized that students may in some cases be able to acquire the requisite 140 credit-units in less than eight semesters of college residence either here or elsewhere, the degree will not be granted for such shorter period of college residence and work excepting to candidates of unusual ability and standing, and on specific recommendation of the faculty. The regular college course is four years.

RECOMMENDATION, APPROVAL AND FEE. Candidates for either degree must be recommended by the respective faculty and approved by the Representative of the Regents of the University of the State of New York. The diploma is given by the Regents of the University of the State of New York, upon recommendation from the Trustees of the Canton Christian College. A diploma fee of $7.50 U. S. currency is charged.

TIME OF AWARD. The degree is conferred upon a successful candidate at the commencement next following the completion of his course of study and other requirements. The degree may be given in absentia only in cases of necessity and by special act.

Graduate Study

At present, the College offers but limited facilities for graduate study. The regulations covering this work may be learned on application to the Dean.

* One credit-unit is represented by one hour lecture or recitation or two hours laboratory work per week for one semester. (A few courses require three hours of laboratory work per week instead of two hours).

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Graduate Standing Abroad

Graduates of the Canton Christian College, upon presentation of a B. A. diploma and transcript of academic record, will be admitted, on recommendation of the Dean, without examination into the graduate schools of Columbia University, Yale University, University of California, University of Wisconsin, Johns Hopkins University, Cornell University, University of Chicago, University of Illinois, University of Michigan, University of Minnesota, University of Washington, Stanford University, University of Toronto, and others, on substantially the same basis as graduates of other accredited colleges and universities in America.

By action of the Court of the University of Hongkong, the work and examinations of the pre-medical course of Canton Christian College are recognized by the University for purposes of admission to the Medical Faculty. This signifies that students who have completed the pre-medical course at Canton Christian College are exempted from the matriculation and first medical examinations of the University of Hongkong.

Two scholarships each year commencing in 1922 will be awarded in the Medical Faculty of the University of Hongkong to students who have completed their pre-medical course at Canton Christian College, entitling each holder to free tuition, ($300, Hongkong Currency,) each year for four years at the University of Hongkong.

The scholarships will be awarded each year by the Faculty of the College of Arts and Sciences of Canton Christian College and the scholars thus appointed will enter the University of Hongkong in January or September of each year at their own option.

General Regulations

NOTE: For additional regulations and details, see the Bulletin of Regulations and Information.

EVERY STUDENT under these faculties must engage regularly in some *athletic work* or drill.

All students are required to attend *daily chapel* and *Sunday morning exercises*.

Students are expected to wear *academic dress* at the first religious service of the College on the second Sunday of each month, and at other times on request.

Students leaving College or absenting themselves from classes without due permission may forfeit all rights and privileges as students

and can not ordinarily be received again except by special action of the Faculty.

Grades are made up at the end of each semester by a combination of examination grades, daily grades, and grades for other work. Instructors may be asked also in the middle of the term for an estimate of the student's standing. A grade of 60 or higher is a pass, one of 50 to 59 is a failure, and one below 50 is a penalty failure.

Unless a student reserves a place in a dormitory the College does not guarantee to keep it for him, but may assign it to another student. A place is considered reserved if the student's guarantee fee is on deposit at the Bursar's Office. (New students should deposit their guarantee fees in advance.) Old students must make application for the removal of their guarantee fees at least ten days before the opening of school if they are not returning or the fee will be forfeited. In any case reservations are held for not longer than the third day after the opening of the session.

The Faculty endeavors to arrange frequent *lectures* by specialists upon subjects of general interest to the Faculty and students. Lectures and entertainments on Saturday evenings are provided. These are usually also open to Middle School students.

Every student is on his *honor* to do his own work on examinations and other work for which credit is sought. Obtaining or giving of aid in such work is considered dishonest.

Students are permitted to study in the *dormitory* and their rooms are to be open for inspection at any time, and should be kept neat, orderly and quiet. No dining is allowed in the dormitory rooms, except in dining rooms, nor may any food be stored in the dormitory.

Occupants of rooms in Java Hall and the New Dormitory may secure keys for their rooms on application to the Dean of Men. A deposit of $1 H.K. currency is required for each key issued, which deposit is refunded when the key is returned.

The management of the *Boarding Department* is in the hands of a committee of the Student Union elected each semester, subject to the final authority of the Council committee consisting of the Bursar and the Deans.

Rules of Attendance

Absences from Class

Approval for absence from class exercises must be obtained from the Dean in Men in writing. The student is responsible for securing this permit and if possible should do so in advance of a contemplated absence. This permit must be submitted to each instructor concerned as soon as the student returns to class.

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Absences not thus properly accounted for shall be reported by the instructor to the Dean of Men. The Dean will then request the advisor concerned to make prompt investigation.

In case of absences not accounted for to the satisfaction of the advisor, the matter shall be reported to the Dean of Men for action.

Excepting absences caused by illness or late enrollment, the total absences in any course in one semester are limited to *one more than* the credit-hours in that course. Reduction in credit and lowering of standing will follow any exceeding of this limit.

Absences from the Campus

College students, *i.e.*, those ranked as freshmen or above, shall have the privilege of "absence from the campus without permit" at any time between the hours of 8 A.M. and 8 P.M. of any single day not conflicting with college exercises.

The gates of the campus shall be closed at 8 P.M. Any student returning to the campus between the hours of 8 P.M. and 8 A.M. must present a written permit from the Dean of Men. The gate keeper shall collect this permit, record on it the time of the student's return, and transmit it to the Dean of Men. For the convenience of students visiting the wharf, a warning bell shall be rung five minutes before the closing of the gates.

Every student is required to be in his room at 10:15 P.M. (or 15 minutes after the close of any College entertainment lasting until after 10 P.M.). A roll-call at this hour may be held in any dormitory on any evening, under arrangements to be made by the Dean of Men.

ORGANIZATIONS

The formation of any student organization on the College grounds must be approved by the executive of the school concerned. Such approval must also be obtained for its constitution, regulations, fees, and activities; likewise for any subsequent changes in the same. Every organization must provide for a faculty advisor and have all publications approved by the Dean. Every organization must report promptly to the Dean the officers selected from time to time. A list of the college organizations is given elsewhere in this catalogue.

No secret societies may be formed, except under special regulations.

FINANCES

The annual or semester budget of each general student organization (that is, one composed of a majority of the students in any school), and of each student organization with an annual budget of over $200 H.K. currency must be approved beforehand by the executive of the school concerned.

All accounts of such organizations, and of teachers' organizations, must be audited, as soon as closed for the year or semester, by the College Auditor and a copy filed with the Bursar. Any unbusiness-like use of funds must be reported by the Auditor to the President and any serious departure from the budget to the executive who approved it.

Smaller student organizations or classes must keep their expenditures within their regular fees. For breaches of these rules, the president and treasurer of the organization will be held personally responsible.

The raising of money or soliciting of subscriptions by any individual or organization on the College grounds without the consent of the President is strictly prohibited.

MEETINGS

Meetings of the student body or general student organizations may be held after obtaining permission of the executive of the school concerned, and after posting a notice of the meeting in both English and Chinese on the bulletin board of the school concerned, or having it announced at the proper chapel service. Permission for regularly scheduled meetings may be obtained in advance for a whole year, until changes are made.

Whenever the Auditorium in Swasey Hall is to be used for any purpose it is necessary to reserve the use of it by application to the President.

The word "meeting" in all cases includes parades and celebrations.

Regulations for College Women

1. College women, except daughters of the staff, should all live in dormitories. Special permission to live elsewhere may be given to near relatives of the staff, but for this the consent of the President is necessary.

2. Young women must get permission to go to Canton from the Dean of Women. The Dean of Women will endeavor to carry out any expressed wishes of parents or guardians regarding such permission. She shall have discretion to decide as to when a chaperon is not necessary. To be absent overnight a written or personal request from the guardian is necessary for each occasion.

3. Young women must be back on the campus before 6:30 p.m. between November and February inclusive, all other months before 7:30 p.m. except when accompanied by a chaperon.

4. Young women are not allowed in the men's dormitory sections of the campus except with chaperon or by special permission.
5. Anyone wishing to leave the Women's Building in the evenings for other parts of the campus must state her reason to the Dean of Women.
6. Young women may receive callers in the reception room of their dormitory until 7:30 any evening, and on Sundays until 9:30 p.m.
7. Absence from classes is subject to the same rules as in the case of men students and must be similarly explained to the Dean of Women.
8. On all academic matters women students will consult their Advisor.
9. College women are responsible directly to the Dean of Women for their personal conduct and relationship to the College.

General Statement of Courses

Seven groups of subjects are offered in the College of Arts and Sciences: General Arts, Natural Science, Business Administration, Chemistry, Education, Pre-medical and Pre-theological. All of these courses presuppose the Canton Christian College Middle School course or its equivalent.

General Arts Group *(Four Years)*

Those students who desire a liberal education preparatory to entering such professions as translating, interpreting, journalism, law, literary work, lecturing, social and religious service, and the like, will find it best to follow, in the main, the General Arts course.

Natural Science Group *(Four Years)*

Those students who look forward to a scientific and technical career, such as biological or physical research, science teaching or engineering will get their best preparation by following the Natural Science group.

Business Administration Group *(Four Years)*

Those seeking to prepare for general business, accounting, banking, foreign commerce, statistical research, government service,

etc., will get the best preparation by following the Business Administration group of studies.

Chemistry Group *(Four Years)*

The constantly increasing service of Chemistry in industry and civilization, as well as its specific application to many of the new problems of China's productivity and economic welfare, turn an increasing number of students to its study and practice.

Education Group *(Two Years or Four Years)*

The exceptional position and problems of Education in China have led to the formation of the Department of Education which offers courses designed to meet three needs: the training of teachers and school officers, particularly for Middle Schools, the provision of instruction in education for those not themselves expecting to engage in teaching, and the solution of some of the many problems incident to the development of a new system of education in China.

Pre-medical Group *(Two Years)*

The Pre-medical group of studies aims to prepare students for entrance to the best medical colleges of China and abroad, and seeks to maintain a standard sufficient to enable those who have completed the sophomore year in this group with distinction to enter directly such institutions as the Peking Union Medical College, the Hunan-Yale College of Medicine, the Pennsylvania Medical School (Shanghai), and the Medical Faculty of the University of Hongkong. Students completing this course will be awarded a Junior Certificate in Pre-medical Subjects. It is recommended, however, that pre-medical students proceed to the bachelor's degree before undertaking a regular medical course.

Pre-theological Group *(Two Years)*

This course, covering freshman and sophomore years, is outlined elsewhere. Students completing this course will be given a two-year Junior Certificate in Pre-theological Subjects, admitting them without examination to the Divinity School of the Union Theological College of Canton.

Affiliation with the Theological Seminaries in Canton

Arrangements have been made with the Canton Union Theological College and with the Graves Theological Seminary of the Southern Baptist Convention Mission, Canton, whereby students

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of the Canton Christian College may elect certain courses at either seminary and secure credit both towards a degree from the College and a diploma from the seminary. A reciprocal privilege is enjoyed by students of the two seminaries. Full details as to this matter may be obtained on application to the Dean of the College of Arts and Sciences, or to the president of either seminary.

Required and Elective Courses

IN ALL GROUPS, certain courses are required of all students. The required courses are found chiefly in the lower classes of the College, but even here a wide range of electives is offered. In general, a student may take any course which is open to members of his class in any group. provided he shall be taking the required work in his own course and shall have had the prerequisite work in the subject.

In the following tables the studies are indicated which are open to a student for each semester in the College. The student should first enroll in the prescribed courses, if possible. No student can become a candidate for a degree unless he shall have completed his required courses or their equivalent.

Courses for College students are designated by numbers, e.g., Religion 1. Courses numbered from 1 to 10 are open to Freshmen and above, those numbered 11 to 30 are open to Sophomores and above and those numbered 31 and above are open only to Juniors and Seniors. Upper classmen may elect courses open to lower classes in the College.

Students in the College of Agriculture may elect. with the approval of their advisor, courses in the College of Arts and Sciences for which they have had the prerequisites, subject to limitations of the roster, and *vice versa*.

Courses designated by the small letters *a-b* following the course number, e.g., English 1a-b, are year courses, 1a being given the first semester and 1b the second semester and the entire course must be completed before credit can be counted toward a certificate or degree.

Prescribed Subjects for Degree

In order to be eligible for the B. A. degree, the student must present *at least* the following credits in prescribed subjects:

General Arts Group

English	16	credits
Chinese	16	„
History	12	„
Economics (Bus. Ad. 1)	6	„
Religion	8	„
Biology and Chemistry	9	„
Psychology	6	„
Philosophy	3	„
Government, Sociology or Education	8	„
Total prescribed	84	„

Education Group

Education, apart from Education 1,	24 to 38	credits
English	16	„
Chinese	16	„
Psychology	10	„
Economics (Bus. Ad. 1)	6	„
History	6	„
Biology and Chemistry	9	„
Religion	8	„
Government, Sociology or Philosophy	6	„
Total prescribed	101 to 115	„

Business Administration Group

Business Administration and Economics	52	credits
English	14	„
Chinese	12	„
Biology and Chemistry	9	„
Religion	8	„
History 1	6	„
Government 11	3	„
Psychology 32	3	„
Sociology	3	„
Total prescribed	110	„

Chemistry Group

Chemistry	63	credits
English	8	„
Chinese	8	„
Mathematics	24	„
Biology and Physics	15	„
French or German	10	„
Religion	8	„
Economics (Bus. Ad. 1)	6	„
Total prescribed	142	„

Natural Science Group

English	8	credits
Chinese	8	„
Science*	54	„
Mathematics	8	„
Religion	8	„
Economics (Bus. Ad. 1)	6	„
Total prescribed	92	„

*At least 11 credits must be presented in Biology, 12 credits in Chemistry and 12 credits in Physics.

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SUMMARY OF COLLEGE COURSES

GENERAL ARTS GROUP

(Minimum 16, † Maximum 22 credit-units)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Chinese	2	Chinese	3
	English 1a	4	English 1b	4
	History 1a	3	History 1b	3
	Economics (B. Ad. 1a)	3	Economics (B. Ad. 1b)	3
	Psychology 1a	3	Psychology 1b	3
	Biology 1	3	‡Religion	2
SOPHOMORE	Chinese	2	Chinese	2
	English	3	English	3
	History	3	History	3
	Chemistry 2a	3	Chemistry 2b	3
	‡Religion		‡Religion	
	Electives		Electives	
JUNIOR	Chinese	2	Chinese	2
	English		English	
	‡Religion		‡Religion	
	Electives		Electives	
SENIOR	Chinese	2	Chinese	2
	Psychology	3	Philosophy	3
	English		English	
	Electives		Electives	

NOTES: *One credit or credit-unit represents one hour of recitation or lecture, or two (or in some cases, three) hours of laboratory or field work per week for one semester.

‡At least eight credits in Religion must be completed by candidates for a degree.

†The maximum depends on standing. See rule on page 31.

SUMMARY OF COLLEGE COURSES

NATURAL SCIENCE GROUP

(Minimum 16, †Maximum 22 credit-units)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	⁂Chinese	2	⁂Chinese	2
	Biology 2	4	Biology 3	4
	Chemistry 1a	6	Chemistry 1b	6
	English 1a	4	English 1b	4
	Elective		⁂Religion	2
SOPHOMORE	⁂Chinese	2	⁂Chinese	2
	Physics, Chemistry or Biology		Physics, Chemistry or Biology	
	Economics (B. Ad. 1a)	3	Economics (B. Ad. 1b)	3
	⁂Religion		⁂Religion	
	Electives		Electives	
JUNIOR	⁂Chinese	2	⁂Chinese	2
	Science		Science	
	Electives		Electives	
SENIOR	⁂Chinese	2	⁂Chinese	2
	Science		Science	
	Electives		Electives	

NOTES: *One credit or credit-unit represents one hour of recitation or lecture, or two (or in some cases, three) hours of laboratory or field work per week for one semester.

⁂ At least 8 credits in Chinese and 8 credits in Religion must be completed by candidates for a degree.

†The Maximum depends on standing. See rule on page 31.

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SUMMARY OF COLLEGE COURSES

BUSINESS ADMINISTRATION GROUP§

(Minimum 16, †Maximum 22 credit-units)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Chinese	2	Chinese	3
	Business Admin. 1a	3	Business Admin. 1b	3
	Business Admin. 5a	4	Business Admin. 5b	4
	English 1a	4	English 1b	4
	History 1a	3	History 1b	3
	Biology 1	3	‡Religion	2
SOPHOMORE	Business Admin. 11a	3	Business Admin. 11b	3
	Business Admin. 15a	4	Business Admin. 15b	4
	English	3	English	3
	Chemistry 2a	3	Chemistry 2b	3
	‡Electives		‡Electives	
**JUNIOR	Business Admin. 32	3	Business Admin. 26	3
	Business Admin. 41	3	Business Admin. 38	3
	Government 11	3	Business Admin. 48	3
	History 17	3	History 18	3
	‡Electives		‡Electives	
**SENIOR	Business Admin. 14	3	Business Admin. 22	3
	Business Admin. 18	3	Business Admin. 29	3
	Business Admin. 35	3	Business Admin. 45	3
	Psychology 32	3	Business Admin. 50	3
	‡Electives		‡Electives	

NOTES: §Students who are not candidates for the Certificate in Business Administration may substitute other Business Administration courses for those here indicated in the Sophomore year and above (except course 11a-b), provided a minimum total of 52 credits in Business Administration is presented for a degree.

*One credit or credit-unit represents one hour of recitation or lecture or two (or in some cases, three) hours of laboratory or field work per week for one semester.

‡In selecting courses, the student is reminded that for a degree there must be presented at least 12 credits in Chinese, 8 credits in Religion, and 3 credits in Sociology, and these subjects should be given first consideration in making elections.

** Junior and Senior years alternate. The actual grouping of courses in these years is subject to modification, but all courses indicated will be offered within a two-year cycle.

†The maximum depends on standing. See rule on page 31.

SUMMARY OF COLLEGE COURSES

CHEMISTRY GROUP

(Students in this group must elect the courses specified below, but may elect additional courses under the usual conditions.)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Chinese	2	Chinese	3
	Mathematics 1	4	Mathematics 2	4
	English 1a	4	English 1b	4
	Biology 1	3	Religion	2
	Chemistry 1a	6	Chemistry 1b	6
	Total	19	Total	19
SOPHOMORE	Mathematics 11a	4	Mathematics 11b	4
	German 1 or French 1	5	German 2 or French 2	5
	Physics 11a	6	Physics 11b	6
	Chemistry 11a	5	Chemistry 11b	4
	Total	20	Total	19
JUNIOR	Chinese	2	Chinese	2
	Mathematics 31	4	Mathematics 32	4
	Religion	2	Religion	2
	Chemistry 31a	4	Chemistry 31b	4
	Chemistry 33a	6	Chemistry 33b	6
	Total	18	Total	18
ENIOR	Economics (B. Ad. 1a)	3	Economics (B. Ad. 1b)	3
	Religion	2	Chemistry 41b	6
	Chemistry 41a	7	Chemistry 42	3
	Electives	(12)	Electives	(12)
	Chinese	2	Chinese	2
	Chemistry 38a	3	Mineralogy	3
	Mineralogy	3	Chemistry 38b	4
	Chemistry 35	4	Chemistry 34	4
			Chemistry 47	4

NOTE: *One credit or credit-unit represents one hour of recitation or lecture or two (or in some cases, three) hours of laboratory or field work per week for one semester.

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SUMMARY OF COLLEGE COURSES

EDUCATION GROUP

(Minimum 16, †Maximum 22, credit-units)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Chinese	2	Chinese	3
	English 1a	4	English 1b	4
	Psychology 1a	3	Psychology 1b	3
	‡History 1a	3	‡History 1b	3
	‡Economics (B.Ad.1a)	3	‡Economics (B.Ad.1b)	3
	‡Biology		⁂Religion	2
	or Elective,	4	Electives	
SOPHOMORE	Education 2	5	Education 12 (or 14) or Special	5
	Chinese	2	Chinese	2
	English	2	English	3
	⁂Religion		⁂Religion	
	Electives		Electives	
JUNIOR	Education 11 (or 30)	5	Education 14 (or 12)	5
	Chinese	2	Chinese	2
	Practice Teaching	2	Practice Teaching	2
	Psychology	4	Electives	
	Electives			
SENIOR	Education 30 (or 11)	5	Education 31, 32, or Special	5
	Chinese		Chinese	
	Practice Teaching		Practice Teaching	
	Electives		Electives	

NOTES: *One credit or credit-unit represents one hour of lecture or recitation, or two (or in some cases, three) hours of laboratory or field work per week for one semester.

‡ Students desiring to specialize in the teaching of science are permitted to postpone the courses in History and Economics in order to enter upon Chemistry 1 in their Freshman year. They should also elect Biology 2 instead of Biology 1, and follow this with Biology 3.

⁂ At least eight credits in Religion must be completed by candidates for a degree.

† The maximum depends on standing. See rule on page 31.

SUMMARY OF COLLEGE COURSES

JUNIOR CERTIFICATE IN EDUCATION

(Minimum 14, †Maximum 22 credit-units)

YEAR	SEMESTER I		SEMESTER II	
	COURSES	*CREDIT	COURSES	*CREDIT
FRESHMAN	Chinese	2	Chinese	2
	English 1a	4	English 1b	4
	Psychology 1a	3	Psychology 1b	3
	Economics (B. Ad. 1a) or History 1a	3	Economics (B. Ad. 1b) or History 1b	3
	Electives, not more than	7	Religion	2
			Electives	
SOPHOMORE	Education 2	5	Education 12	5
	Chinese	2	Chinese	2
	Practice Teaching	2	Practice Teaching	2
	English, Chinese, Mathematics, Content Subject, or Education Special	7 to 13	English, Chinese, Mathematics, Content Subject, or Education Special	7 to 13

NOTE: Students having taken this two-year course and later deciding to continue study may proceed to the Bachelor's degree by observing the total requirements of the Education Group.

* One credit or credit-hour represents one hour of recitation or lecture, or two (or in some cases, three) hours of laboratory or field work per week for one semester.

† The Maximum depends on standing. See rule on page 31.

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SUMMARY OF COLLEGE COURSES

PRE-MEDICAL GROUP

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
COLLEGE PREPARATORY	English A	5	English B	5
	Physics A	6	Physics B	6
	Religion A	1	Religion B	1
	§Chinese A	3	§Chinese B	3
	Mathematics A	4	Mathematics B	4
	History A	3	History B	3
	Total	22	Total	22
FRESHMAN	Chemistry 1a	6	Chemistry 1b	6
	Biology 2	4	Biology 3	4
	Chinese	2	Chinese	2
	English 1a	4	English 1b	4
	German 1	5	German 2	5
			Religion 1	2
	Total	21	Total	23
SOPHOMORE	Physics 11a	6	Physics 11b	6
	Chemistry 12	6	Chemistry 14	6
	Chinese	2	Chinese	2
	Biology 15a	6	Biology 15b	4
			Biology 11	3
	Total	20	Total	21

NOTES: *One credit or credit-unit represents one hour of lecture or recitation, or two (or in some cases, three) hours of laboratory or field work per week for one semester.

§ Chinese C and Chinese D may be elected in addition to those specified courses.

SUMMARY OF COLLEGE COURSES

PRE-THEOLOGICAL GROUP

(Minimum 16, † Maximum 22 credit-units)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	*CREDIT	SUBJECTS	*CREDIT
FRESHMAN	Chinese	4	Chinese	4 to 6
	English 1a	4	English 1b	4
	Biology 1	3	Biology 11	3
	Philosophy 14 (Logic)	3	Social Science	3
	Greek 1a	2	Greek 1b	2
	Religion 5a	2	Religion 5b	2
			Electives	
SOPHOMORE	Chinese	4 to 6	Chinese	4 to 6
	Psychology 32	3	Philosophy 13 (Ethics)	3
	Philosophy	3	Sociology	3
	Greek 11a	3	Greek 11b	3
	Religion 3a	2	Religion 3b	2
	History	3	History	2
	Electives		Electives	

NOTES: Candidates for the certificate must have completed the courses which are specified above by number, and sufficient work in the other courses indicated to present 72 credit-units.

*One credit or credit-unit represents one hour of recitation or lecture, or two (or in some cases, three) hours of laboratory or field work per week for one semester.

†The maximum depends on standing. See rule on page 31.

COLLEGE OF ARTS AND SCIENCES
COURSES OF STUDY IN DETAIL
ARCHAEOLOGY

31a-b. Chinese Archæology (古物學). The purpose of this course is the study and the preservation of the historical objects, places and monuments of China, including ancient ceramics, paintings, bronzes, coins, gems and all branches of palæography and antiquity. This course, it is hoped, will serve as a step toward the formation of archæological museums and societies. Lectures, discussions, reports, travelling, and making of collections. *Not offered in 1923-24.*

2 hours; two semesters.

BIOLOGY

Professor..... .....; Assistant Professor F. A. McClure; Mr. T. Y. Chen.

THE BIOLOGICAL department is well equipped with microscopes and other instruments necessary for work in botany and zoology. A good herbarium and working collections of the local fauna are also accessible to the students. The library includes the publications of the United States National Museum and the Carnegie Institution, nearly all the standard reference texts, and files and current numbers of *Annals of Applied Biology, Botanical Gazette, Journal of Entomological Research, Journal of Agricultural Science, Journal of Ecology, Journal of Genetics, Journal of Heredity, Philippine Journal of Science, Review of Applied Entomology* and *Tropical Life*.

1. General Biology. The fundamental principles of biology. This course is intended for those who wish to have a general knowledge of the subject but will not take any later courses except, perhaps, Biology 11. Prescribed for all students in the Business Administration, Chemistry and Pre-theological groups, and for all students in the General Arts and Education groups who do not elect Biology 2 and 3 instead of this course.

Conn: Biology.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

2. Botany. Structure of plants and general function of plant organs. Prescribed for students in Natural Science and Pre-medical groups, and for all students in the College of Agriculture.

Ganong: Text-book of Botany.
Lectures two hours, laboratory 4 hours (4 credits); one semester.

3. Zoology. Introductory study of the various forms of animal life, with emphasis upon those forms of protozoa, lower worms and arthropods of interest to the farmer, medical or general student. Local material is almost entirely examined. Prescribed for students in the Natural Science and Pre-medical groups, and for all students in the College of Agriculture.

Galloway: Zoology.
Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

6. Systematic Botany. A study of the types of plants and their classification, including Latin and Chinese names. See College of Agriculture section of this catalogue for details.
Lectures 1 hour, laboratory 3 hours (2 credits); one semester.

11. Heredity and Evolution. The theories of evolution and the laws of heredity with their practical application. Prerequisite: Biology 1, or 2 and 3.
3 hours; one semester.

12. Agricultural Bacteriology. See College of Agriculture section of this Catalogue for details.
Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

14. Plant Physiology. See College of Agriculture section of this Catalogue for details.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

15a-b. Comparative Morphology and Physiology. A comparative study of the anatomy and physiology of the important groups of invertebrate and vertebrate animals. The local vertebrate fauna is discussed particularly. Designed especially for pre-medical students but open to others. Prerequisites: Biology 2 and 3.
First semester, lectures 3 hours, laboratory 6 hours; (6 credits).
Second semester, lectures 2 hours, laboratory 4 hours; (4 credits).

18. General Embryology. A study of the fundamental principles of vertebrate embryology. The development of the pig, the frog and the chick is studied. Attention is also given to technique. Designed for pre-medical students, but open to others. Prerequisites: Biology 2 and 3.
Lectures 2 hours, laboratory 3 hours (3 credits); one semester.

20. Physiology. Physiology of the human body. Prerequisite: Biology 1, or 2 and 3.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

21. Hygiene. Personal, domestic and civil hygiene. Prerequisite: Biology 1, or 2 and 3.
Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31a-b. Economic Zoology (Entomology). See College of Agriculture section of this catalogue for details.
Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

33. PLANT PATHOLOGY. See College of Agriculture section of this catalogue for details.

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

37a-b. PROBLEMS IN BIOLOGY. Individual research work for advanced students under the supervision of an instructor. Prerequisites: at least Biology 2 and 3.

BUSINESS ADMINISTRATION

PROFESSOR K. DUNCAN; MR. AU LAI CHAU: MR. KAM NAAI KWONG; MR. I. H. WARE; MR. C. H. HAINIS.

THE COURSES in Economics and Business Administration have been combined under the department of Business Administration. Modern China is demanding men trained in the theory and practice of business as it is carried on not only in China but also in the other countries of the world. A knowledge of accounting, statistics, labor history, insurance, business law and organization, markets, advertising, commercial geography, transportation, banking and exchange, and of the fundamental economic principles underlying the complex relations of the business world in general is necessary for a proper direction and the intelligent control of the modern industrial system now developing in China.

The well-trained business man of to-day, moreover, not only needs a thorough acquaintance with professional technique and underlying principles, but also, if he is to meet adequately the duties of executive responsibility and civic leadership his calling requires, he needs the broad outlook and liberal understanding to be gained from a knowledge of sociology, history, political science, psychology, and other foundational arts and sciences.

The courses in Business Administration are classified under six general heads: I. Economic Theory and History; II. Accounting; III. Business Law and Administration; IV. Commerce and Transportation; V. Banking and Finance; and VI. Social Economics. The degree course in the Business Administration group, outlined on page 50 provides a well-balanced and sequential program of studies from each of these major fields, and may be supplemented by other related courses in electives.

It is recommended that students in Business Administration seek to qualify for the Certificate in Business Administration as well as for the degree. This group of studies provides an excellent foundation for specialization as well as for intelligent participation in the business world. This special Certificate in Business Administration, bearing the signatures of the Dean of the College and of the instructors in Business Administration, will be awarded a student who meets the following conditions:

1. He must complete successfully the prescribed program of study for the Business Administration Group as it appears in this catalogue in the Summary of College Courses, and meet all other conditions for graduation.

2. He must have attained a grade of 80 or above in courses for four-fifths of the credits offered for graduation.

3. He must present, not later than two weeks before Commencement Day, a satisfactory thesis, printed or typewritten, on some special topic germane to the field of Business Administration. The subject of this thesis must have been selected by the student and have met with the approval of the senior professor in the department of Business Administration not later than the beginning of the student's last semester in residence, and it will be necessary that the senior professor certify to the acceptability of this thesis before this condition for the Certificate shall be considered fulfilled. Theses of successful candidates for the Certificate in Business Administration will be bound and deposited in the College Library, and the title and author's name published in the next issue of the College Catalogue.

The College and private libraries on the campus furnish a large amount of well selected material for economic and business study. Files and current numbers of *American Economic Review, Economic Journal, Administration, Harvard Business Review, Annals of the American Academy, Journal of Political Economy, Chinese Social and and Political Science Review, Trans-Pacific, Journal of the American Statistical Association, Journal of Accountancy,* and other similar periodicals are available. In some cases the files are complete. The near-by cities of Canton and Hongkong afford unusual opportunities for studies of modern business and economic problems.

I. Economic Theory and History

1a-b. ELEMENTARY ECONOMICS: ORGANIZATION OF INDUSTRY. Nature of human wants and of economic resources; structure, function and interrelations of our industrial organization, approached from the point of view of the evolution of economic institutions and the services they perform. Stress is placed on the significance of the characteristic attributes and assumptions of modern industrial society: on private property and free competition, on specialization and interdependence, on technological development, on concentration of control, on the preeminence of pecuniary valuations, on the impersonality and irresponsibility of certain modern economic relationships, and on the intelligent guidance of industry in the light of social welfare.

Marshall and Lyon: Our Economic Organization.
Selections from *Marshall:* Readings in Industrial Society.

3 hours; two semesters.

11a-b. General Economic Theory. A comprehensive survey of the structure and operations of the economic world and of the more important economic principles. This course presumes a general acquaintance with the institutions of industrial society and their functions. It seeks to enunciate with fair precision the economic laws underlying the pecuniary-cooperative-competitive order and to articulate these principles into a rational system. Economic theory is stressed and especial attention is given to the more persistent popular economic fallacies and misconceptions. The course is concluded with a critique of the present economic order and a brief examination of some of the proposed substitutes. Prerequisite: Business Administration 1a-b; open to others only by special permission of the instructor in charge. *Not offered in 1923-24.*

Carver: Principles of Political Economy.
Duncan: Exercises in Elementary Economics.

3 hours; two semesters.

14. Statistical Methods. Elementary principles of statistical method; the collection, presentation and interpretation of statistical data. Special attention given to the various types of indices, averages and coefficients and their proper uses, and to tabular, graphic and diagrammatic methods of presenting economic and social statistics. Primarily for students expecting to do research work in business administration, economics, educational measurements and genetics. Admission to the course only on approval of the instructor. It is recommended that Mathematics 2 precede or accompany this course.

King: The Elements of Statistical Method.
King: Exercises in Statistical Method.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

22. Insurance. Principles and methods of insurance, its history, problems and law. Life insurance with an elementary consideration of the fundamental mathematics of actuarial science. Fire insurance, as an example of property insurance. Marine insurance; social insurance; insurance carriers; state insurance; insurance statistics; insurance in China. Prerequisite: Business Administration 1a-b and 5a-b.

Huebner: Life Insurance.
Huebner: Property Insurance.

3 hours; one semester.

39. History of Economic Thought. History of economic ideas and philosophy from ancient times to the present. The effect of changing social and industrial systems on economic ideas; the economic interpretation of history; the present economic

order and economic liberalism. Prerequisite: Business Administration 11a-b.

Haney: History of Economic Thought.

3 hours; one semester.

40. History of Economic Thought in China. (中國經濟思想史) The development of economic thought from the time of Laotze and Confucius to the present. The place of Chinese economic thought in the world, the effect of economic thought of different periods on economic conditions, the Chinese Physiocrats, and modern western influences. Lectures, discussions and reports.

3 hours; one semester.

II. Accounting.

5a-b. Elementary Bookkeeping and Accounting. General principles of bookkeeping and an introduction to the entire field of accounting. While accounting theory is emphasized, the chief aim of this course is to familiarize the student with the essential bookkeeping technique requisite for a thorough understanding of the principles of accounting. The topics covered include business organization and proprietorship, the fundamental financial statements, opening of accounts, nature of the transaction and the account, business papers and methods, philosophy of debit and credit, types of ledgers and journals, posting and periodic adjustment of accounts, closing entries, theory of accounts, preparation of periodic statements of profit and loss and of financial status. A minimum of bookkeeping routine is provided through illustrative problems and exercises, and through the development of simple sets of books.

Kester: Accounting Theory and Practice, Revised, Vol. I.
Practice Data accompanying *Kester's* Accounting, Vol. I.

Class-room 2 hours, laboratory 4 hours (4 credits); two semesters.

15a-b. Second-Year Accounting. Presuming a thorough acquaintance with bookkeeping technique and of the general principles of accounting, this course undertakes a more detailed study of the corporation balance sheet in connection with its problem of valuation. Organization of the corporation and the accounting involved; principles of valuation; calculation and accounting treatment of depreciation; allowance and reserve accounts; inventory methods; deferred items and accruals; wasting assets; intangibles; nature and accounting treatment of liabilities with particular attention to amortization of premium and accumulation of discount; determination and disposition of periodic net revenue; analyses and preparation of special financial statements of corporations for use of shareholders and directors, managers, investors and creditors, governmental regulatory bodies, and others; corporate liquidation

and consolidations. Treatment and interpretation of some special accounts, such as agency accounts, sales and purchase discounts, taxes, various reserves, hypothecated items, contingent and suspense accounts, and other doubtful accounts. Prerequisite: Business Administration 5a-b.

Kester: Accounting Theory and Practice, vol. II.
Practice Data accompanying *Kester's* Accounting, vol. II.

Class-room 2 hours, laboratory 4 hours (4 credits); two semesters.

58. Cost Accounting. Principles and practice of cost accounting and cost finding; elements of cost; mechanism of cost control; types of cost records; nature and procedure of the inventory; allocation of expense; preparation of financial statements for the manager; cost and stock record systems; statistical and recording devices. Prerequisite: Business Administration 15a-b. *Not offered in 1923-24.*

Jordan and Harris: Cost Accounting.

3 hours; one semester.

59. Auditing. Nature and procedure of the audit; principles of verification; depreciation; investigations for various purposes. Prerequisite: Business Administration 15a-b. *Not offered in 1923-24.*

Montgomery: Auditing Theory and Practice.

3 hours; one semester.

III. Business Law and Administration

26. Foreign Business Law. The fundamental principles of American and English business law; comparison with the commercial law of China. The more general and practical principles are developed from problems and selected cases, particularly as related to the law of contracts, property, negotiable papers, insurance, partnership, and corporations.

Huffcut-Bogert: Elements of Business Law.

3 hours; one semester.

28. Chinese Business Law and Documents. (商法及商業文件) A discussion of business law as it is administered in different parts of China. A study is made of public and commercial documents and frequent practice given in drawing them up.

3 hours; one semester.

29. Industrial Management. Planning, launching, locating, constructing and equipping of industrial enterprises; administrative organization; plant and operation policies; personnel management; employment technique and scientific management; profit-sharing and wage scales; welfare work; factory inspection; control of materials; methods of mercantile distribution: reports, statistics and graphs for managerial purposes. Prerequisites: Business Administration 1a-b and 5a-b.

Jones: The Administration of Industrial Enterprises.
Readings in *Marshall*: Business Administration.

3 hours; one semester.

IV. Commerce and Transportation.

3. Industrial and Commercial Geography. A survey of the industrial and commercial products of the various countries of the world with special reference to China. Introductory study of shipping, trade routes, ports of the world, domestic and foreign production statistics, exports and imports, and the material of world commerce.

Smith: Commerce and Industry.
Arnold: Commercial Handbook of China.

3 hours; one semester.

4. History of Commerce. The origin and growth of world commerce. The industry and trade of the great nations of ancient and modern times: Phoenicians, Greeks, Romans, Italians, Spaniards, Portuguese, Dutch, French, British, Americans, with particular reference to their trade relations with China and the Orient in general. The commercial transformation of the Far East.

Herrick: History of Commerce and Industry.

3 hours; one semester.

12. Business Correspondence. Commercial correspondence, office methods and trade cultivation. A consideration of the English of advertising; preparation of form letters and booklets; filling and office systems; office equipment.

David and Lingham: Business English and Correspondence.

3 hours; one semester.

32. Marketing and Advertising. Theory and principles of marketing and merchandising; modern methods and problems in the marketing of raw materials and manufactured products; trade channels and function of various middlemen; advertising and its place in modern marketing practice; investigation of marketing methods in China.

Cherington: Elements of Marketing.
Nystrom: Economics of Retailing.
Calkins and Holden: Modern Advertising.

3 hours; one semester.

35. Economics of Transportation. Railroad and water transportation; relation of transportation to industry and society and methods of governmental control; organization; construction and financing of transportation systems; traffic associations; traffic agreements; routes; ports and terminals; rates and their regulation.

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A special study is made of the railroads of China, their routes, service rendered, and management, and the needs of China for the expansion of her transportation facilities. Prerequisite: Business Administration 11a-b, and it is recommended that Business Administration 3 and 4 precede this course.

Johnson and Van Meter: Principles of Transportation, Revised.

Huebner: Ocean Steamship Traffic Management.

3 hours; one semester.

38. International Trade and Commercial Policies. Principles and practice of international trade; advantages and disadvantages of international commerce; survey of world trade and trade tendencies; international business practice and institutions; commercial treaties; nationalistic and imperialistic trade policies; economic protectionism; the tariff problem; merchant marine subsidies; relation of foreign trade to colonial policies. Foreign trade of China and Japan. Prerequisite: Business Administration 11a-b. It is recommended that Business Administration 3 and 4 precede this course.

Savay: Principles of Foreign Trade.
Syllabi with assigned readings.

3 hours; one semester.

55. Commercial Teachers' Course. Intended for students who expect to teach commercial subjects in Middle Schools and Colleges. Various fundamental business courses are taken up and methods outlined for the presentation of their subject-matter. Students will be given actual teaching practice. Special attention will be paid to the question of selection of courses that will be meet the needs of local business communities in China. This course will be given with the cooperation and assistance of the Department of Education. *Not offered in 1923-24.*

4 hours; one semester.

V. Banking and Finance.

41. Money and Banking. The nature and functions of media of exchange; evolution of money; principles of metallic coinage, credit currencies and fiat moneys; monetary systems; theory of money prices and price indices; nature and uses of credit; credit instruments. Theory and history of commercial banking; administration and operation of a modern bank; domestic and foreign exchange; loans and discounts; savings banks and other allied financial institutions; Chinese and foreign banking systems. The class will visit the Mint and banks in Canton. Prerequisite: Business Administration 5a-b and 11a-b.

Holdsworth: Money and Banking.

Ferrin: Chinese Currency and Finance.

3 hours; one semester.

42. International Banking and Foreign Exchange. Nature, function and theory of foreign exchange; pars of exchange; specie movements; international banking and discount markets; relations of exports and imports and of international investments to foreign exchange; types of foreign exchange instruments; sterling and dollar credits; the silver exchanges. Prerequisites: Business Administration 5a-b, 11a-b and 41. *Not offered in 1923-24.*

Escher: Foreign Exchange Explained.

3 hours; one semester.

45. Corporation Finance. Theory and practice of corporation finance, embracing the organization, promotion, financing and intercorporate relations of modern business corporations, with particular reference to the problems of finance and the division of the elements of income, risk and control. The course includes a study of the various types of corporate securities; the principles underlying the financial plan and methods of promotion; the underwriting and placing of corporate securities; the administration of corporate income; financing of expansions; corporate failures; receivership and reorganization procedure. Prerequisite: Business Administration 5a-b and 11a-b; Business Administration 15a-b must either precede or accompany this course.

Dewing: Financial Policy of Corporations.

3 hours; one semester.

46. Principles of Investment. Function of the investor in the financial organization of society; distinction between investment and speculation; characteristics and investment merits of the different types of securities, including government and municipal issues and bonds and shares of various kinds of companies; economic, industrial and political conditions affecting security prices; security ratings and appraisals; investment banking institutions; investment legislation and social control. Prerequisites: Business Administration 5a-b, 11a-b and 45.

Lagerquist: Investment Analysis.

3 hours; one semester.

48. Public Finance. Study of the theory and history of governmental expenditures and revenues; salient features of the revenue systems of China and foreign countries; customs and transit duties; taxation with special reference to the general property, business, income and inheritance taxes; local and national taxation in China; the single tax; financial administration; public indebtedness; war finance and other problems of extraordinary finance. Prerequisite: Business Administration 11a-b.

Hunter: Outlines of Public Finance.

3 hours; one semester.

49. Financial History of China. (中國財政史) A study of the development of the tax system, public debts, government banks and other features of public finance in China from earliest times to the present, with emphasis upon the finances of China since 1900. Particular attention will be given to the various Chinese loans, both internal and external, national and provincial, and to the question of foreign financial control in China. Syllabi with assigned readings. Prerequisite: Business Administration 48.
胡鈞: 中國財政史. (商務)

3 hours; one semester.

50. Public Service Corporations. Nature of public service industries (other than railways) and their relation to the State. Methods of regulation of service, rates, accounts, and security issues through franchises, judicial decisions, commission control, legislation and government ownership. Theory of rates and rate-making and of valuation; public utilities in China, with a comparison with European and American experience. Prerequisites: Business Administration 11a-b and 15a-b and Government 13. *Not offered in 1923-24.*

King: The Regulation of Municipal Utilities.
King: State Regulation of Public Utilities.

3 hours; one semester.

VI. Social Economics

18. Labor Problems and Legislation. Origin and development of the labor movement; trade unions; recent labor movements in China; labor legislation and administrative supervision; limitation of hours; minimum wage laws; workmen's compensation acts; laws relating to the employment of women and children; labor bureaus; critical review of plans proposed for solution of definite phases of the labor problem. Prerequisite: Business Administration 1a-b or equivalent.

Carlton: The History and Problems of Organized Labor.
Adams and Sumner: Labor Problems.

3 hours; one semester.

31. Conservation of Economic Resources. A survey of the natural resources and products of China of economic significance and an examination of the policies of conservation and control. General principles of conservation and its practice in other countries; the economic aspects of scientific agriculture, food supply, forestry, flood control, natural power, use of mineral wealth, and the conservation of human resources.

Ely, Hess, Leith and Carver: Foundations of National Prosperity, and syllabi.

3 hours; one semester.

52. Socialism. The development of socialistic thought and a critical discussion of the chief contemporary systems of socialism. Special attention given to Marxian philosophy, to modern evolutionary socialism, and to present-day radical movements. Socialism in China.

Kirkup: History of Socialism.
Spargo: Applied Socialism.

3 hours; one semester.

CHEMISTRY

Professor C. N. Laird; Assistant Professor Chiu Yan Tsz; Mr. H. W. House

THREE ROOMS, approximately 1500 square feet in area, are occupied by the department of Chemistry. One room, seating forty, equipped as a lecture room, is also used for recitations, another room accommodates fifty-six students in general chemistry, working in three sections, and the third has desks for thirty-two students in analytical and organic chemistry. Each desk is equipped with running water and (gasoline) gas. The equipment includes both apparatus for demonstration purposes and all the materials and supplies needed for each student to perform the experiments in the courses in general inorganic, analytical, organic and agricultural chemistry.

South China is rich in materials available for many chemical industries. Some of these are already being made use of, but processes are generally simple and often crude. A four-year course in chemistry in offered, aiming to train men to be able to enlarge the development of these resources, especially those of a non-metallurgical character. A number of industrial processes will be put in operation on a small scale in connection with this course, and one of these, the manufacture of soap, is now in operation.

In addition to several hunded well selected books, files and current numbers of the *American Chemical Journal (Vols. 8-50)*, *Journal of the American Chemical Society (1900-)*, *Chemical Abstracts (Complete)*, *Journal of Industrial and Engineering Chemistry (Complete)*, *Chemical and Metallurgical Engineering*, *Journal of the Franklin Institute*, *Journal of the American Ceramic Society*, *Journal of Physical Chemistry*, *Journal of Biological Chemistry (Complete)*, *Journal of the Chemical Society (1882-)*, *Journal of the Society of Chemical Industry (1900-)*, *Journal of the Association of Official Agricultural Chemists*, *Physiological Reviews*, *Transactions of American Electro-chemical Society*, and *Science* (China) are available.

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A. Elementary General Chemistry. A simple introductory course recommended for students expecting to take the Premedical and Chemistry groups, but open to others. No College credits.

McPherson and Henderson: First Course in Chemistry.
Class-room 1 hour, laboratory 2 hours, daily; Summer Session.

1a-b. General Inorganic Chemistry. The work covers only the ordinary non-metallic (first semester) and metallic (second semester) elements and their compounds, but a thorough knowledge of them is required. The quantitative laws of chemical combination and the principles of chemical equilibrium are mastered, and the habit formed of continually applying these principles to all chemical, including ionic, reactions. Prerequisite: Physics A and B (College Preparatory Class). Laboratory fee: $20.00.

Holmes: General Chemistry.
Alex. Smith: A Laboratory Outline of College Chemistry.
Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

2a-b. Elementary Chemistry. An introductory course in general chemistry, required of Sophomores in the General Arts, Business Administration and Education groups who do not elect Chemistry 1. Laboratory fee: $10.00.

McPherson and Henderson: Elementary Study of Chemistry.
McPherson and Henderson: Exercises in Chemistry.
Class-room 2 hours, laboratory 2 hours (3 credits); two semesters.

11a-b. Qualitative Analysis. A course in the theory and practice of inorganic qualitative analysis to develop habits of chemical reasoning along modern theoretical lines and correct laboratory technique. Prerequisite: Chemistry 1. Physics 11 should precede or accompany this course. Laboratory fee: $20.00.

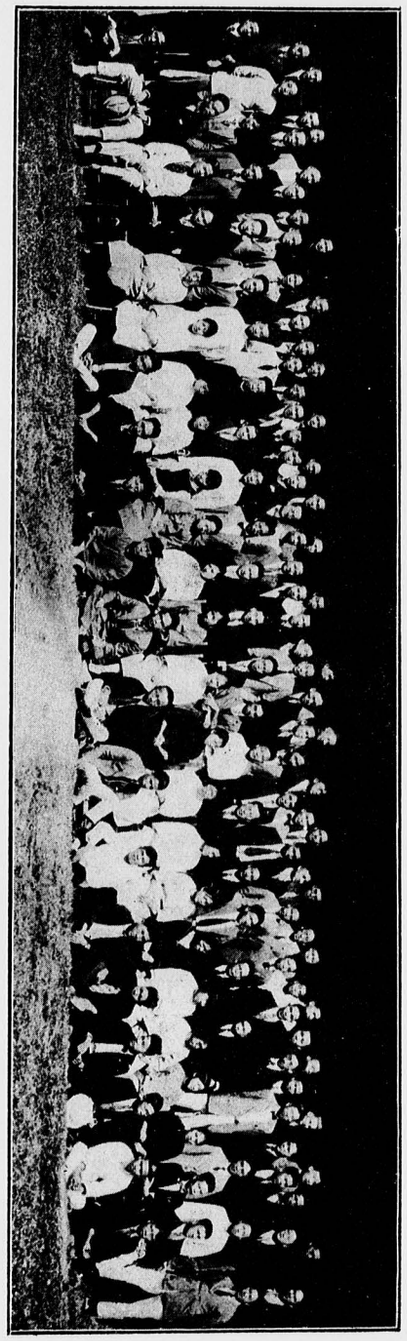
Stieglitz: Qualitative Chemical Analysis, Vol. 1.
A.A.Noyes: Qualitative Chemical Analysis.
Class-room 2 hours, first semester, 1 hour second semester, laboratory 6 hours (9 credits for the year); two semesters.

12. Analytical Chemistry. Short course for Agricultural and Pre-medical students. Lectures on theory of analytical chemistry and training in laboratory methods. Mostly qualitative analysis, but five weeks are spent on preparation and use of standard solutions and simple gravimetric determinations. Prerequisite: Chemistry 1. Laboratory fee: $15.00.

A. A. Noyes: Qualitative Chemical Analysis.
Class-room 2 hours, laboratory 9 hours (6 credits); one semester.

14. Elementary Organic Chemistry. Short course for Agricultural and Pre-medical students. Survey of the characteristics

STUDENT BODY
COLLEGE OF ARTS AND SCIENCES AND COLLEGE OF AGRICULTURE, 1922-23



and relationships of the more important members of the alipathic series followed by a briefer treatment of the aromatic series. Relation of organic chemistry to medicine, pharmacy and agriculture is emphasized. Agricultural students will be in the laboratory only 3 hours, and receive 4 credits. Prerequisite: Chemistry 12. Laboratory fee: $10.00.

Moore: Outlines of Organic Chemistry.

Fisher: Laboratory Manual of Organic Chemistry.

Class-room 3 hours, laboratory 6 hours (6 credits); one semester.

31a-b. QUANTITATIVE ANALYSIS. Theory of quantitative separations with discussion of laboratory methods and chemical calculations. Typical methods of gravimetric and volumetric analysis used. Prerequisites: Chemistry 11 and Physics 11. Laboratory fee: $20.00.

Blasdale: Principles of Quantitative Chemical Analysis.

Class-room 1 hour, laboratory 6 hours (4 credits); two semesters.

33a-b. ORGANIC CHEMISTRY. Broad survey of the most important compounds of both the alipathic and aromatic series. Reference made to local materials and industrial applications whenever possible. Preparation of typical organic compounds and recognition of important radicals in the laboratory. Prerequisites: Chemistry 11 and Physics 11. Laboratory fee: $30.00.

Norris: Organic Chemistry.

Fisher: Laboratory Manual of Organic Chemistry.

Class-room 3 hours, laboratory 6 hours (6 credits); two semesters.

34. ADVANCED ORGANIC SYNTHESIS. Prerequisite: Chemistry 33. Laboratory fee: $10.00. *Not offered in 1923-24.*

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

35. ANALYTICAL ORGANIC CHEMISTRY. Technical methods of analysis, with special reference to soap, oils, and other local products. Prerequisites: Chemistry 31 and 33. Laboratory fee: $10.00.

Class-room 1 hour, laboratory 6 hours (4 credits); one semester.

38a-b. PHYSICAL CHEMISTRY. Discussion of equilibrium reactions in gases, thermodynamics, Phase Rule, theories of solutions, and colloid chemistry. Prerequisites: Chemistry 31 and Mathematics 31. Laboratory fee. $10.00. *Not offered in 1923-24.*

Class-room 2 hours, laboratory 3 hours (7 credits for the year); two semesters.

41a-b. INDUSTRIAL CHEMISTRY. Lectures on general methods of applied chemistry, with special reference to local conditions and the development of Chinese industries. Laboratory work

includes use of typical industrial processes on a small scale, and inspection of plants in South China. Prerequisite: Chemistry 33. Laboratory fee: $25.00.

Thorp: Outlines of Industrial Chemistry.

Class-room 3 hours, laboratory 9 hours first semester, 6 hours second semester, (13 credits for the year); two semesters.

42. Special Problems in Industrial Chemistry. Each Senior in industrial chemistry will be assigned a problem, such as the analysis and study of an important local raw material or the design of a small vegetable oil plant, on which a report will be made. Library work, conferences, etc. Prerequisite: Chemistry 41. Laboratory fee: $10.00.

Laboratory 6 hours, (3 credits); two semesters.

45. Agricultural Chemistry. See College of Agriculture section of this Catalogue for details.

Stoddart: Chemistry of Agriculture.

Class-room 2 hours, laboratory 4 hours, (4 credits); one semester.

47. Food Analysis. Analysis of typical Chinese foodstuffs. Prerequisite: Chemistry 33, but open to Agricultural students who have had Chemistry 14.

Woodman: Food Analysis.

Class-room 1 hour, laboratory 6 hours, (4 credits); one semester.

CHINESE
中國文學

Professor Chan Tsap Ng; Assistant Professor Chan Shau Yi;
Mr.....

Chinese Language (文字學)

11a-b. Chinese Characters. A study of the philology and linguistics of the Chinese characters, both ancient and modern. This course will prepare students to do research work in the field of Chinese antiquity and also will prove valuable to the student who intends to study the new type of Chinese literature for the layman. Lectures, discussions and practical work.

2 hours; two semesters.

31a-b. The Evolution of Chinese Characters. A systematic study of the principles and characteristics of the growth of the Chinese language and the multiplication of the characters. Lectures, discussions and research. Permission of the teacher in charge is necessary for a student electing this course.

2 hours; two semesters.

Chinese Literature (文學)

1a-b. Introduction to Chinese Literature (文學概論). This course seeks to familiarize the students with the form and types characteristic of Chinese literature and to prepare them for the study of special types and special periods. Lectures, assigned reading and bi-weekly papers. Prerequisite for all other courses in Chinese Literature.

2 hours; first semester: 3 hours; second semester.

3. Chinese Folklore (民間文學) This course is especially planned for students working in absentia during the summer. They are required to record, following prescribed methods of procedure, whatever folk-songs and folk-tales are still current and accessible. This course is an attempt to conserve the immense wealth of Chinese folk-literature which has never been given the necessary attention. The number of credits earned varies with the quantity and quality of work done.

1 to 3 credits; Summer Session.

11a-b. History of Literature (文學史). A brief survey of the development of Chinese Literature from the earliest ages to the end of the last dynasty. Lectures, discussions, collateral reading and reports.

3 hours; two semesters.

12a-b. Chinese Prose Writings (文詞學). A study of the representative types of prose writings; of the different schools; of modern tendencies, and of the theories of style. Lectures, discussions, imitative exercises and reports.

2 hours; two semesters.

13a-b. Versification (詩詞學). The different types and forms of Chinese poetry, both ancient and modern, are critically studied. In this course the student will endeavor to make improvements on the current forms of hymns, songs, and histrionic productions for the sake of popular education. Lectures, discussions and practical work. Permission of the teacher in charge, based upon a grade of 80 or better in Chinese Literature 1a-b, is necessary for a student electing this course.

2 hours; two semesters.

14a-b. The Chinese Novel (長篇小說). Reading and discussion of the most representative Chinese Novels with special attention to the problems of material and method.

2 hours; two semesters.

15. The Short Story (短篇小說). This course discusses some of the problems of material and method in the short story, drawing freely from western authors for illustrations and applying

their theories and methods to Chinese material. Lectures, discussions, assigned reading and bi-weekly themes.

2 hours; one semester.

21. THE CANTON THEATER (粵劇). This course is a practical survey of the Canton theater, as well as an æsthetic criticism of the Canton drama. Special attention is called to the undesirable tendencies and the natural possibilities of the stage in this part of China.

1 credit; Summer Session.

31a-b. LITERARY CRITICISM (文學評論). A brief examination, by modern methods and comparison with western theories, of the ancient essays on literary criticism and a discussion of some of the fundamental principles to be adopted for sound critical judgment and literary appreciation.

3 hours; two semesters.

32. MODERN WRITERS (近代文學). A review of the representative work of the leading writers of the last fifty years with careful attention to both style and content. The main tendencies in Chinese literature are discussed. Lectures, assigned reading, reports and papers.

3 hours; one semester.

34. CONTEMPORARY LITERATURE (當代文學). A critical study of current Chinese literature, discussing the foreign and other modern influences at work, the rapid adaptation and assimilation of new theories, etc. Discussions, assigned reading, and reports.

2 hours; two semesters.

Composition in Chinese

11a-b. Prescribed for all students in the College. This is not a course in Chinese classics and literature. The aim of the course is to guide and encourage the student to make use of the knowledge which he has acquired through the medium of the English language by expressing it in Chinese. This is so essential in the preparation of the increasing number of men who are looking forward to teaching in primary and middle schools, that its importance must be emphasized. Students are classified according to the general lines of study which they pursue and are required to reproduce English works in substance in modern and idiomatic Chinese. Opportunity is afforded for collateral reading of books already translated by acknowledged authorities and for informal class discussions.

2 hours; two semesters.

31a-b. A continuation of course 11.

2 hours; two semesters.

ECONOMICS

The courses in Economics are described under the heading of Business Administration, on pages 58 to 66 of this catalogue.

DEPARTMENT OF EDUCATION

PROFESSOR H. B. GRAYBILL; ASSISTANT PROFESSOR J. N. KEYS; MR. YEUNG KWOK TSUEN.

THE DEPARTMENT of Education of the College of Arts and Sciences is organized to facilitate the correlation of:

1. The professional preparation of teachers through Education courses in the College of Arts and Sciences.
2. The supervision of primary and middle schools conducted in connection with the Canton Christian College.
3. The maintenance of a Teachers' Employment Bureau, the preparation of educational publications, and the conduct of other activities designed for the service of Chinese schools in general and the Christian schools of Kwangtung in particular.

To students in this Department, the College offers the following certificates and diploma, and stands ready to recommend approved candidates for the positions indicated below upon satisfactory completion of the requirements shown:—

Certificate and Position	Requirement
JUNIOR CERTIFICATE IN EDUCATION	
As teacher in Lower Middle School	Education 1, 2, 10 (4 credits), and 12 (or Special) together with 45 additional credits in any college group.
SENIOR CERTIFICATE IN EDUCATION	
A. As teacher of general Middle School subjects	Education 1, 2, 11, 12, and 10 (4 credits), with the Bachelor's degree in any college group.
B. As teacher of English, or Science, or other special subjects	Education 1, 2, 11, 10 (4 credits), and Special (21, 22, 23, 24, 25, 26, or 27) and the Bachelor's degree with a satisfactory preparation in the subject to be taught.
C. As administrator in the Lower Middle School	Education 1, 2, 11, 12, 14, and 10 (6 credits or one year's experience as a regular teacher under supervision) and the Bachelor's degree.

DIPLOMA IN EDUCATION

As Middle School administrator, supervisor, or instructor in Teacher Training Subjects.	Education 1, 2, 11, 12, (or Special), 31, (or 32), and 10 (8 credits or one year's experience as a regular teacher under supervision) and the Bachelor's degree.

1. The Learning Process. Identical with Psychology 1.

Peters: Human Conduct.

Pyle: Psychology of Learning.

Lectures 2 hours; laboratory 2 hours (3 credits); two semesters.

2. Technique of Instruction in Middle Schools. The general introduction to classroom management and the teacher's art, organization of subject matter, the principle of mastery, types of learning, training in expression, in reasoning, problem solving and the project method, varieties of classroom exercise, supervised study, the socialized recitation, laboratory and lecture methods, the art of questioning, lesson planning, the assignment, provision for individual differences, and the use of tests in the improvement of instruction. Education 1 as a prerequisite is desired but not required. Lectures, readings and observations.

Holley: The Teacher's Technique.

Parker: Exercises for Methods of Teaching in High Schools.

5 hours; one semester.

8. Scientific Study of Education. An introduction to the fundamental problems of the school and its relations to society, together with the modern scientific approach to the study of these problems. Not open to students who have had Education 2 or above.

Judd: Introduction to the Scientific Study of Education.

1 credit; Summer Session.

9. Practicum in School Management. This course affords for a limited number of students the opportunity of acquiring by direct experience under supervision an acquaintance with the practice and details of efficient school administration.

1 credit; Summer Session.

10. Practice Teaching. Students in education may gain one credit for two hours or two credits for four hours a week during each semester of practice teaching, provided this is done under the supervision of the instructor and is of a grade which meets his approval. A certain amount of collateral reading is expected, and a report is required upon the actual conduct of the course taught or a well-kept daily lesson plan book. Not more than eight credits in Practice Teaching may be offered for a degree.

1 or 2 credits a semester.

11. Principles of Secondary Education. A survey of the nature and place of the secondary school in the light of China's needs, valuable to students of sociology and of education alike. The historical development of secondary schools in Europe and in China, aims and functions of secondary education in a democracy, the psychology of adolescence, vocational guidance and training, moral direction, types of middle schools in China and abroad, the curriculum, principles of selection, emphasis and order. Education 1 and 2 as prerequisites are desirable but not required. Lectures, readings and investigations.

Monroe: Principles of Secondary Education.

5 hours; one semester.

12. Methods of Teaching the Middle School Subjects. A detailed and highly practical course in the essentials of modern special method in the teaching of each or most of the following subjects: English, Chinese, Arithmetic, Religion, History, Hygiene, General Science, Geography, Handwork, Music and Art. Prerequisite: Education 1 or 2. Lectures, readings and observation.

Rapeer: The Teaching of Elementary School Subjects.

5 hours; one semester.

14. Middle School Administration and Supervision. A practical course in the conduct and supervision of secondary schools, office management, record-keeping and reports, equipment, school supplies, school buildings and decoration, grounds, sanitation, programs, student organizations, boarding department, library, athletics, supervision of health, inter-school concerns, relations to parents and the community, celebrations and ceremonies, employment of staff, training of teachers in practice, supervision of instruction, evaluation of achievement, classification and promotion. Lectures, observation, readings and seminar. Open to students who hold ten credits in Education and who declare their expectation of entering administrative work.

Class 3 hours, laboratory 4 hours (5 credits); one semester.

18. Readings in Education. Readings under direction on some approved topic of educational theory or practice, followed by the submission of a satisfactory paper or translation. Open only to students holding credit for two or more courses in Education.

1 credit; Summer Session.

Special Courses. The following special courses, ranging from two to five semester hours in length, are offered in rotation as demand arises. The satisfactory completion of one such course is required of all candidates for either Junior or Senior Certificate in Education as teacher of a particular subject. Effort is made to include in each course a certain review of the content suited to Middle

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School classes, and emphasis is placed upon observations and actual participation in classroom work.

21. The Teaching of English.
22. The Teaching of Chinese.
23. The Teaching of Middle School Mathematics.
24. The Teaching of Natural Science.
25. The Teaching of Social Sciences.
26. The Teaching of Religion and Ethics.
27. The Teaching of Handwork and Fine Arts.
28. The Teaching of Commercial Subjects: See Business Administration 55.

30. Scientific Method in the Study of Education. An introduction to the technique of statistical and experimental investigation as applied to the work of the school, the elements of statistics, tabulation and graphical presentation, measurement of classroom products, derivation and application of scale tests in school subjects, mental tests, school surveys and experiments in teaching method. Prerequisite: Ten credits in Education.

McCall: How to Measure in Education.

Class-room 3 hours, laboratory 4 hours (5 credits); one semester.

31. Scientific Study of the Curriculum. A course for advanced students to consider in a detailed and practical manner the ends to be attained in schools and courses of the various types common in China, and the materials needed for the purpose. Typical courses of study are analyzed and compared, the proper content and arrangement of the customary subjects considered at length and the possibility of valuable innovations studied. Attention is also given to textbooks, syllabi and material appliances. Current progress in the application of scientific methods to the discovery of definite needs and aims is emphasized, and provision made for experimental work in this direction. Prerequisites: Education 1, 2, 11, and 30, or equivalent. Lectures, laboratory and seminar.

Snedden: Educational Sociology.

5 hours; one semester.

32. Problems of Administration and Supervision in China. An advanced treatment of the more important and difficult problems of middle school administration, including standards, organization, development, and financing of both private and government institutions, the implications of universal compulsory education, attendance, sources of income, distribution of expenditures, part-time schools and extension activities, caring for special types of pupils, of the preparation of teachers, relation of middle schools to primary and university, relation of mission schools to the government system, etc., Prerequisites: Education 14 and 30.

5 hours; one semester.

ENGLISH

Professor J. C. Griggs; Assistant Professor Chan Shau Yi; Mr. A. H. Holt; Mr. P. A. Grieder.

1a-b. English Composition Prescribed for all Freshmen, except those in the College of Agriculture. Study of composition and style with emphasis on the relation between clear thinking and clear writing. While the work of the course is chiefly in composition, there are regular assignments of reading intending to illustrate the principles studied as well as to give practice in reading. Rhetoric, reading, themes and conferences.

Genung and Hanson: Outlines of Composition and Rhetoric (Ginn).
Burke: Speech on Conciliation with America, edited by Lamount (Standard English Classics; Ginn).
Tennyson: Idylls of the King, edited by Boughton (Ginn).
Webster: First Bunker Hill Oration, edited by Gaston (Ginn).
Campbell and Rice: A Book of Narratives (Heath).

4 hours; two semesters.

1c-d. Supplementary English for Freshmen. Required of all Freshmen whose English is deemed inadequate. No credit-units, but the total number of credit-units taken by a student of whom this course is required (Rules on page 31) will be reduced by two, to provide the time needed to do this work.

2 hours; two semesters.

2a-b. English Composition for College of Agriculture Students. Prescribed for Freshmen. A course in composition and reading, corresponding with some modification to 1a-b, with themes on subjects taken from the practical work and the texts of the courses in agriculture.

3 hours; two semesters.

3. Fiction. A course in rather rapid reading and criticism of Modern Novels. The text is changed each year.

Scott: Quentin Durward.

1 hour daily (1 credit); Summer Session.

11a-b. Reading Course in Modern English. The aim of this course is to familiarize the student with the idiom and vocabulary of modern periodicals and to give him some idea of the scope and content of the leading weekly and monthly magazines.

2 hours; two semesters.

12a-b. English Prose Fiction. While giving the student practice in rapid reading this course discusses some of the problems of material and method in the short story and the novel. Reading of works of Swift, Goldsmith, Dickens, Stevenson and modern novelists, with lectures, discussions and papers based on the reading. In

addition to texts read by the class, each student will read and report on some one work of modern fiction.

3 hours; two semesters.

14a-b. RHETORIC. This course in the forms and methods of writing has a two-fold aim—to develop the student's powers of self-expression and to enable him to read with understanding of the author's methods and with enjoyment of literary art. Supplementary readings. Open to Sophomores and above who have received a grade of 85 or better in English 1 or by permission of the instructor.

2 hours; two semesters.

15. PHONETICS. A study of the elements of pronunciation and expression, in both theory and practice. An inquiry into methods of teaching Chinese students who are beginning spoken English. The semester's work is finished by a public test in reading or declamation.

Griggs: Efficient Speech.

2 hours; one semester.

31a-b. INTRODUCTION TO ENGLISH LITERATURE. Open to students who have taken English 11 or English 12, or by permission of the instructor. This outline is intended to furnish a background for the study of special types of literature and a point of departure for the study of special periods. Lectures, assigned reading and the preparation of papers and reports.

Simonds: History of English Literature.
Manly: English Prose and Poetry.

3 hours; two semesters.

32a-b. MATERIALS OF MODERN LITERATURE. In a very simple and elementary form this course makes an approach to the methods of comparative literature. It takes up the great common sources of material: the most important of the classical stories, the Norse stories, the Roland stories and the Arthurian stories. After studying the original outline and significance of the stories the student is shown some of the modern developments of the material. Lectures, assigned reading and papers.

3 hours; two semesters.

33a-b. MODERN PLAYS AND PLAYWRITING. Reading and discussion of recent plays of importance, with study of the principles and methods of playwriting, and with practice in writing plays.

2 hours; two semesters.

34a-b. MODERN PROSE AND POETRY. Reading and discussion of some of the chief works of contemporary writers, especially in fiction and the drama. Open to students who have taken English 11 or English 12, or to other students by permission of the instructor.

3 hours; two semesters.

35a-b. ENGLISH LITERATURE FROM 1830 TO 1890. A study of the literature of this period with special attention to the great poets of the Victorian period.

3 hours; two semesters.

36a-b. JOURNALISM. A brief study of the value, organization and operation of the daily, weekly and monthly press; study and practice in collecting, writing, editing, and publishing news, articles and editorials. Prerequisite: 15 credits in English.

2 hours; two semesters.

FRENCH

MR. E. R. VAN SANT.

1. ELEMENTARY FRENCH. Study of the essentials of grammar and composition, with the reading of simple texts.

Fraser and Squair: Shorter French Course.
Fontaine: En France. 5 hours; one semester.

2. INTERMEDIATE FRENCH. Study of more advanced grammar including all the irregular verbs. Much reading of prose of moderate difficulty.

Lesage: Gil Blas.
Laboulage: Contes Bleus. 5 hours; one semester.

12. FRENCH PROSE. A rapid reading course in the best French novels and essays of the classical and modern authors. This course must be accompanied by course 14a.

4 hours; one semester.

13. FRENCH DRAMA. Rapid reading of selected plays of Corneille, Racine, Moliere, Hugo, and Rostand. This course must be accompanied by course 14b.

4 hours; one semester.

14a-b. FRENCH COMPOSITION. A course in advanced French composition and grammar covering the finer and more technical points of the language. This course must accompany courses 12 and 13.

Longman: French Composition.

1 hour; two semesters.

GEOLOGY

11. GENERAL GEOLOGY. An appreciation of the general principles underlying the structure and formation of the earth; earth processes and earth history in relation to modern life and human activity; the formation of soil from different types of rock; elementary mineralogy.

Chamberlain and Salisbury: A College Text-Book of Geology.
Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

GERMAN

MR. P. A. GRIEDER.

1. ELEMENTARY GERMAN. Simple exercises and grammar. Reading of easy texts.
Manfred: Ein Praktischer Anfang.
Foster: Geschichte und Maerchen.
Benedix: Nien! 5 hours; one semester.

2. INTERMEDIATE GERMAN. Study of grammar continued. Much reading of prose of moderate difficulty, with some attention given to the reading of scientific German.
Sturm: Immensee.
Scholz: German Science Reader. 5 hours; one semester.

12a-b. MODERN GERMAN. Rapid reading of some of the best German short stories and novels. This course must be accompanied by course 14.
Baumbach: Der Schwiegersohn.
Hillern: Hoeher als die Kirche.
Moser: Der Bibliothekar. 2 hours; two semesters.

13a-b. CLASSIC GERMAN. The reading of at least one work of importance of each of the three great classicists: Lessing, Goethe, and Schiller. *Not offered in 1923-24.*
2 hours; two semesters.

14a-b. GERMAN COMPOSITION. Study of German idiom and syntax. This course must accompany course 12.
Bacon: German Composition. 1 hour; two semesters.

16a-b. SCIENTIFIC GERMAN. Rapid reading, with emphasis on vocabulary of the natural sciences. Collateral reading in journals and standard works, with reports.
Scholz: German Science Reader. 2 hours; two semesters.

GOVERNMENT

DR. S. K. WEI; PROFESSOR H. C. BROWNELL

11. PRINCIPLES OF GOVERNMENT. The origin, development, principles and problems of Government. Special attention paid to the political development and problems in China.
Haines and Haines: Problems and Principles of Government.
3 hours; one semester.

12. COMPARATIVE GOVERNMENTS. Comparative study of the governments of China, Japan, America, England, France, Germany, Switzerland and Russia with particular emphasis on the political conditions and problems in China.
3 hours; one semester.

13. MUNICIPAL GOVERNMENT. The methods and principles of municipal government, with particular attention to the development of municipal government in Canton and other Chinese cities. Prerequisite: Government 11 or 12.
Munro: Principles and Methods of Municipal Administration.
3 hours; one semester.

14. STATE GOVERNMENT. A study of the principles and problems of state government in the United States with particular attention to the problems of provincial government in China. Prerequisite: Government 11 or 12.
Dodd: State Government in the United States.
3 hours; one semester.

15. INTERNATIONAL LAW. The origin, development, principles and problems of international law with special attention to China's International relations Prerequisite: Government 11 or 12.
Hershey: Essentials of International Law.
3 hours; one semester.

16. INTERNATIONAL ORGANIZATION. The origin and development of modern diplomacy; the principles, methods and problems of international organization. Special attention paid to China's international relations.
Potter: An Introduction to the Study of International Organization.
3 hours; one semester.

GREEK

1a-b. HELLENISTIC GREEK. Elementary course, primarily for pre-theological students. The grammar, and simple exercises. Readings and translation from St. John's Gospel.
Moulton: Introduction to New Testament Greek.
Green: Vocabulary of the New Testament.
Nestle: Greek New Testament.
2 hours; two semesters.

11a-b. HELLENISTIC GREEK. Second year course. Readings and translation from the New Testament. Same texts continued.
3 hours; two semesters.

HISTORY

PROFESSOR H. C. BROWNELL; ASSOCIATE PROFESSOR R. REES; ASSISTANT PROFESSOR CHAN TAK WAN.

1a-b. MODERN EUROPEAN HISTORY FROM THE PROTESTANT REVOLUTION TO THE CLOSE OF THE FRANCO-PRUSSIAN WAR. Assigned readings and essays.
Robinson and Beard: History of Europe: Our Own Times.
1 hour; two semesters.

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2. The Last Fifty Years of Europe. A rapid survey of the Great Powers from 1870 to the settlement at the close of the Great War. History 1 is recommended but not required as a prerequisite. No credit for those who have had History 13.
Robinson and Beard: History of Europe: Our Own Times.
1 hour daily (1 credit); Summer Session.

4. Industrial History of England. A study of the evolution of modern economic and social institutions as illustrated in the history of England. Readings in the sources and regular reports. History 4 may be elected instead of History 1b.
Cheyney: Industrial and Social History of England.
3 hours; one semester.

11. The History of the United States since 1850. A rapid review of the outstanding topics of earlier American history and a close study of political, social and economic developments since the Civil War. The party system is explained and criticized, with a discussion of America's position as a world power. Prerequisite: History 1a-b.
Haworth: The United States in Our Own Times.
3 hours; one semester.

13. Europe in Our Own Times. A study of the working of the European state system, 1870-1914, the Balkan Problem and the Balkan Wars, European colonial expansion and the basis of the New Imperialism, and the causes of the Great War. Lectures and assigned readings in such books as Hayes: Political and Social History of Modern Europe, Vol. II; Dawson: The German Empire, 1870-1914; Fife: Germany between Two Wars; Skrine: Russia; Robertson: Bismarck; Marriott: The Eastern Question; Muir: Expansion of Europe, etc. Prerequisite: History 1a-b. Two credits for those who have had History 2.
Rose: Development of the European Nations, 1870-1921.
3 hours; one semester.

14. The Great War and the Peace Settlement. A detailed study of the War but with less emphasis on the military than on the other phases; the redistribution of dependencies as a result of the defeat of Germany and Turkey; the Succession States of Central Europe; the republican constitution of Germany; the new ideals of international relations; lessons already obtainable from the Great War and the treaties which have followed it. A brief study of select documents. *Not offered in 1924-25.*
Hayes: A Brief History of the Great War.
3 hours; one semester.

17. China's International Relations. Notes on the early intercourse of China with the West and a careful study of her relations in the 19th and 20th centuries with Europe, America and Japan. Lectures and assigned readings in such books as Williams: History of China; Morse: International Relations of the Chinese Empire; Li Ung Bing: Outline of Chinese History; Wheeler: China and the World War; Cheng: Modern China. *Not offered in 1923-24.*
3 hours; one semester.

18. China's Neighbors. The opening of Japan and her rise to power are traced to show the reaction upon China and explain their present relations. The constitution and politics of Japan are discussed, also the progress made in Siam, India and the Philippine Islands with their bearing upon needs in China and reforms begun. Lectures and assigned reading in such books as Gubbins: Progress in Japan 1853-71; McLaren: Political History of Japan in the Meiji Era; Porter: Japan, the New World Power; Kawakami: Japan in World Politics; Worcester: The Philippines, Past and present, etc. *Not offered in 1923-24.*
3 hours; one semester.

21a-b. History of Chinese Rites, Customs, Ceremonies and Etiquette (中國禮俗史). This is an historical and critical study of the Chinese principles and rules of propriety and social order. Lectures, discussions and reports.
2 hours; two semesters.

22. Legal and Political History of China (中國法制史). A general survey of the legal and political aspects of China's history and development.
2 hours; one semester.

23. History of Chinese Immigration into Foreign Countries (華僑史). This is an historical and statistical study of the conditions of Chinese abroad. Reports will be gathered for the guidance of Chinese going to and returning from foreign lands. This course prepares the way for the establishment of an information bureau for Chinese emigrants. Lectures and reports.
2 hours; one semester.

HOME ECONOMICS

1a-b. Cookery. Open to Sub-freshmen and to students who have not had a previous course in cookery. Supplementary work will be assigned to all students above the grade of Sub-freshmen. The course includes the study of the elements of food, the principles of cookery, classification of foods, and the preparation of simple dishes. The laboratory work is conducted by demonstration, in groups, and by individual methods. A carefully kept note-book is required.
Lecture 1 hour, laboratory 4 hours (3 credits); two semesters.

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2a-b. Cookery. A continuation of Cookery 1. Analysis of food, menu making, study of digestion, absorption, and metabolism, cookery of infants' food, estimation of calorie values. Prerequisites: Chemistry 1 or 2 and Cookery 1.

Class-room 2 hours, laboratory 4 hours, (4 credits); two semesters.

3a-b. Sewing. Needle work, machine work, drafting patterns, use of commercial patterns, garment making. A brief history of domestic art and textile industry.

Laboratory 6 hours (3 credits); two semesters.

Laboratory fee of $5.00 per year in each course. In addition to the laboratory fee, the students in the classes in cookery pay for food supply from month to month approximately $6.00 per semester to a business manager selected from the class.

JAPANESE

11. Elementary Japanese. Study of essentials of grammar and composition, with the reading of simple texts.
日語讀本 (全四冊)

5 hours; one semester.

12. Modern Japanese. Study of grammar and composition continued. Much reading of modern Japanese essays and short stories. Prerequisite: Japanese 11.

5 hours; one semester.

MATHEMATICS

Professor W. E. MacDonald.

1. Solid Geometry. Solid geometry, including spherical geometry. This course presupposes plane geometry and a working knowledge of algebra through quadratic equations.

Beman and Smith: Solid Geometry. 4 hours; one semester.

2. College Algebra. Variables and functions, equations, theory of equations, series, undetermined coefficients, permutations and combinations, probability.

Rietz and Crathorne: College Algebra. 4 hours; one semester.

5. Introduction to the Mathematical Theory of Interest. The following subjects are considered: Compound interest and discount, construction and use of interest tables; annuities certain, sinking funds, determination of interest, depreciation, renewals and other fixed charges of an industrial undertaking, valuation and amortization of securities, loans repayable by equal installments including principal and interest. Prerequisite: Mathematics 1.

3 hours; one semester.

11a-b. Analytical Geometry. This course aims to increase the student's appreciation of the processes of mathematical thought and the accuracy of expression afforded thereby; to train him in the application of fundamental principles of the analytic method both in the plane and in space; the straight line, conic sections, quadric surfaces, with special attention to locus problems. The idea of the derivative is introduced.

Fine and Thompson: Coordinate Geometry. 4 hours; two semesters.

31 and 32. Differential and Integral Calculus. Drill on the methods of the Differential and Integral Calculus with numerous applications to geometry and physics, the theoretical development being as rigorous as the powers of each class will warrant. As a first course, however, its chief aim is to develop skill in the manipulation of formulas and in the statement and solution of problems. Indispensible for any advanced study of mathematics, chemistry, or physics and for intelligent engineering.

Osgood: Differential and Integral Calculus. 4 hours; two semesters.

34. Differential Equations. Prerequisite: Mathematics 31 and 32. This course is indispensible for students looking toward electrical engineering. *Not offered in 1923-24.*

D. A. Murray: Differential Equations. 3 hours; one semester.

36. Solid Analytical Geometry. Prerequisite: Mathematics 31 and 32. *Not offered in 1923-24.*

C. Smith: An Elementary Treatise on Solid Geometry. 3 hours; one semester.

MUSIC

Credit to the extent of not more than 2 credits in one semester, nor more than 6 credits toward graduation, may be secured for music study, if under the supervision of the College and of approved grade. Ordinarily some special technical study of music will be expected of a student seeking credit in music.

PHILOSOPHY

Dr. S. K. Wei; Professor Chan Tsap Ng

11a-b. History of Western Philosophy. A general survey of the development of Western philosophy from the Greeks to the present time. Students are required to read the original sources as much as possible in connection with studying the standard texts in the history of philosophy. Ancient and mediæval philosophy are considered in the first semester, modern and contemporary philosophy in the second.

Bakewell: Source Book in Ancient Philosophy.

Poole: Illustrations of Thought in the Middle Ages.

Rand: Modern Classical Philosophers. 3 hours; one semester.

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12. Problems of Philosophy. An introductory course dealing with the nature and import of philosophy, the problems of metaphysics, epistemology, and value.
Paulsen: Introduction to Philosophy. 3 hours; one semester.

13. Ethics. The origin and development of morality. Typical ethical theories. Modern ethical problems.
Dewey and Tufts: Ethics. 3 hours; one semester.

14. Logic. Fundamental principles of logic; deduction, induction, the scientific method and judicial proof.
Smith: A First Book in Logic. 3 hours; one semester.

15. Aesthetics. The nature and genesis of art; the elements of the æsthetic experience; the meaning of beauty in the various fields of art; relation of art to morality and religion.
Parker: The Principles of Aesthetics. 3 hours; one semester.

21. Ancient Chinese Classical Philosophers (古代哲學). Selected readings from the works of Lao-tzu, Confucius, Chuang-tzu, Me-tzu, and other authors.
4 hours; one semester.

22. Modern Chinese Classical Philosophers (近代哲學) Selected readings from the works of the modern Confucius schools. Prerequisite: Philosophy 21.
4 hours; one semester.

31. Contemporary Philosophy. A general survey of contemporary philosophical tendencies. The main issues of various contemporary systems. Considerable reading from works of contemporary philosophers is required. Prerequisite: Philosophy 11a-b.
Perry: Contemporary Philosophical Tendencies.
3 hours; one semester.

32. Advanced Metaphysics. Problems in current metaphysics selected from recent writings of contemporary philosophers. Prerequisites: Philosophy 11a-b and 31.
3 hours; one semester.

PHYSICS

Professor C. K. Edmunds; Associate Professor A. R. Knipp; Mr. H. S. Frank

THE PHYSICS DEPARTMENT occupies two large rooms and a shop on the second floor of Martin Hall. Its demonstration and laboratory apparatus, and the shop equipment with lathes and forge, afford ample opportunity for experimentation in both elementary and advanced courses. It has a well-equipped Meteorological Station and makes daily observations of atmospheric temperature and pressure, soil temperature, duration of sunshine, wind-velocity, river-level, rain-fall, evaporation and humidity. The Physics library comprises 600 volumes and includes files of the *Philosophical Magazine*, *Physical Review*, *Science Abstracts*, *etc.*

11a-b. General Physics. A brief rigorous presentation of general physics. A working knowledge of algebra, geometry and trigonometry and a previous study of the equivalent of Physics A and B (College Preparatory Class) is required. The laboratory work aims to train the student to make accurate physical measurement and to reason clearly from the results recorded. A brief study of the precision of measurements and training in practical photography are included.
Class-room 4 hours, laboratory 4 hours (6 credits); two semesters.

31a-b. General Physics. Lectures on the mathematical basis of Mechanics, Heat, Light and Electricity. The laboratory course is made up of experiments requiring a considerable degree of precision.
Class-room 3 hours, laboratory 6 hours (3 credits); two semesters.

PSYCHOLOGY

Assistant Professor J. N. Keys

1. Mental Efficiency. An introduction to the science of human behavior and mental processes, with special attention to the psychology of learning and effective study. Original nature and the social inheritance, the meaning of education, instinct and habit, personality and the control of conduct, apperception, concept, and reasoning, the significance of interest and fatigue, how to memorize, note-taking and outlining, and the use of books.
C. C. C. Bulletin No. 28: How to study.
Peters: Human Conduct.
Pyle: Psychology of Learning.
Lectures 2 hours, Laboratory 2 hours (3 credits) two semester.

2. Psychology of Learning. An introduction to psychology with emphasis of the factors and methods of effective study. An adaptation of Psychology 1. Open only to students of the College of Agriculture.
C. C. C. Bulletin No. 28: How to Study.
Peters: Human Conduct.
3 hours; one semester.

32. Social Psychology. A study of the psychology of the group with special applications to government and industry: mob-mind, fashion, custom, public opinion, suggestion, persuasion, leadership, advertising, scientific management and social control.

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Open, by permission to students of Sociology, Psychology, or Business Administration.

Edman: Human Traits.
Lectures 3 hours, laboratory 2 hours (4 credits); one semester.

33. Physiological and Abnormal Psychology. This course is planned to acquaint students with the physiological basis of behavior, together with the theory of the subconscious and its principal applications in the fields of medicine, law and religion. Subjects treated include the functions and disorders of the brain and nervous system, the organs of sight and hearing, genius and insanity, hypnotism, dual personality, conversion, psychic research, psycho-analysis, and mental hygiene. Psychology 1 is prerequisite except for students of the Pre-medical or Natural Science groups.

Breese: Psychology.
Brill: Fundamental Conceptions of Psycho-analysis.
Lectures 3 hours, Laboratory 2 hours (4 credits); one semester.

RELIGION

Professor A. Baxter.

1. Christian Ethics. Primarily for Freshmen.

The aim is to outline the Ethics of Jesus as given in the New Testament, and interpreted in subsequent Christian life and experience. An endeavour made to indicate the beauty, depth, and supremacy of the Christian moral ideal, and its adequacy as an ideal of conduct in individual life, and in social and international relationships.

2 hours; one semester.

2. The Social Teaching of the Bible. A detailed study of the Social Teaching of the books of the Bible with special emphasis on the social teaching of the prophets, and of Jesus.

2 hours; one semester.

3a-b. History of Religions. A study of the chief religions of ancient and modern times with special emphasis on the living religions of the East. 3a deals mainly with the religions of Egypt, Assyria and Babylonia, Persia, Greece and Rome; but includes some discussion of the origin and validity of religion. 3b deals with the religions of India, and Japan, and an attempt is made to show how the best elements of these religions are conserved, ennobled, and transcended in Christianity.

Menzies: History of Religion. 2 hours; two semesters.

5a-b. Old Testament History. A detailed study of Old Testament times and especially of the Hebrew people, aiming to relate the personalities, institutions, and writings of the Old Testament to Israel's national life and to other nations which influenced its historical development.

2 hours; one semester.

11a-b. Christian Apologetics. This course attempts to present Christianity, so far as is possible, as a reasonable faith, and to help the student towards the solution of problems that arise in the relation between Christian doctrine and practice and other branches of human knowledge.

Peake: Christianity, its Nature and Truth. 2 hours; two semesters.

13. The Person of Jesus Christ. This course is a study of the moral character, claims and influence of Jesus Christ, and the interpretation of his Person in the history of Christian thought, and in the light of modern experience.

2 hours; one semester.

31a-b. Religious History of China. A historical study of the religious life and thought of China.

3 hours; one semester.

SOCIOLOGY

11. Social Origins. An attempt to trace from earliest beginnings man's physical, mental and moral development during the human advance through the ages. An indication of the culture reached by prehistoric man as evidenced by recent discoveries of his primitive utensils, tools, weapons and earliest attempts at art. The origin of domestic, economic and political institutions, showing the evolutionary character of social processes.

Chapin: An Introduction to the Study of Social Evolution.
Osborn: Men of the Old Stone Age. 3 hours; one semester.

15. Social Problems. A study of the modern social problems which every nation must meet, with special reference to China. Such problems as population, the family, poverty, crime, etc. will be considered, from the view-points of the biological, social, economic and spiritual elements contained in them.

Ellwood: The Social Problem.
Ellwood: Sociology and Modern Social Problems, Revised Edition.
3 hours; one semester.

31. General Sociology. An introduction to the general field of sociology, with a brief study of its various branches, including social evolution, processes of socialization through social control, social pathology, social investigation and social ideals. The course is intended to lay the foundation for more specialized study in both social theory and practical social problems.

Blackmer and Giltin: Outlines of Sociology, Revised Edition.
3 hours; one semester.

32. Social Psychology. Identical with Psychology 32, described on page 87.

3 hours; one semester.

The College of Agriculture

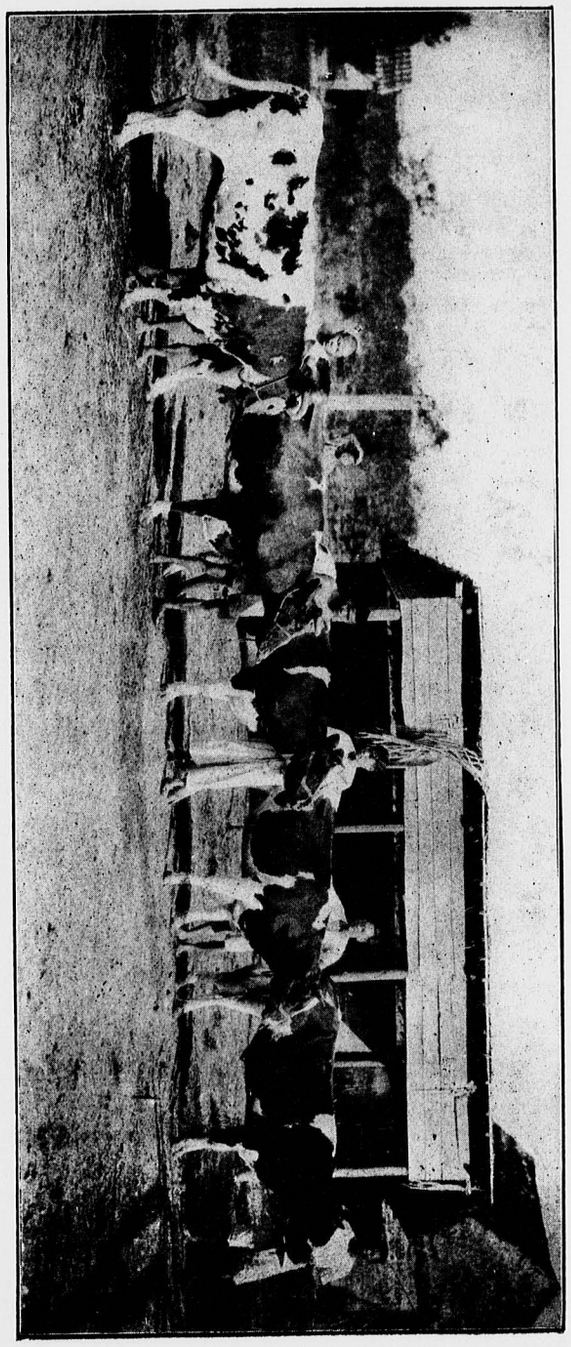
THE CANTON CHRISTIAN COLLEGE has an ideal location and excellent facilities for the work which is offered in the College of Agriculture. It is situated just within the tropics, in the heart of the great Canton Delta, famous throughout the world for its intensive agriculture; within this are grown a wide range of sub-tropical and temperate plants. The College is also in close proximity to the wonderful markets of Canton, where are found in season a wide variety of products of this and other provinces.

The College has a campus of three hundred and fifty acres, over one hundred and fifty of which are devoted to modern farming, landscape gardening, market gardening, fruit culture, grain growing, dairying, stock-raising, etc. The remainder of the campus is devoted to buildings and layout of grounds, on which will be found a large selection of native and foreign trees and shrubs. In the immediate vicinity of the College are the farms of scores of villages, which devote themselves almost entirely to agricultural pursuits. The Kwangtung Provincial Agricultural and Forestry Experiment Station, with more than sixty acres of land, is directly across the river from the College and is easily accessible. The agricultural staffs of the two institutions are in close touch with each other and co-operate in various undertakings.

The College of Agriculture is an integral part of the proposed Kwangtung University. In the year 1921-1922 a liberal appropriation for current expense and permanent investment was made by the Provincial Kwangtung Government. This has made possible a more rapid development of the agricultural work.

The College of Agriculture is also in co-operation with the United States Department of Agriculture and with the government of the Philippines in scientific work. Important agricultural investigations are being carried on. The agricultural staff of the College is also directly associated with several state agricultural institutions in the United States. These connections offer to faculty and students every facility for keeping in touch with the most advanced methods of agriculture and for transmitting from one country to the other desirable agricultural practices.

The College Library contains more than four hundred well-selected books on agriculture and related subjects; files of the bulletins and reports of the United States Department of Agriculture and of various Agricultural Experiment Stations and colleges of the United States and other countries; and files and current numbers of the following journals on agriculture: —



IMPORTED DAIRY COWS IN THE COLLEGE DAIRY

Agricultural Index, Agricultural Journal of India, Agricultural Gazette of New South Wales, Agricultural News, (West Indies), American Florist, Ayrshire Digest, Breeder's Gazette, Bulletin Agricole de l'Institut Scientifique de Saigon, Butter Cheese and Egg Journal, California Citrograph, Country Life, Experiment Station Record, Farm Journal, Farm Mechanics, Gardener's Chronicle of America, Hoard's Dairyman, Holstein-Fresian World, Ice Cream Review, International Review of Agriculture (Rome, Italy), Journal of Forestry, Journal of Agricultural Science, Journal of Dairy Science, Journal of American Veterinary Medical Association, Market Grower's Journal, Mededeelingen van de Landbouhoogeschool en van de Daaraan Verbonden Instituten (Dutch), Philippine Agricultural Review, Philippine Agriculturalist, Silk, Soil Science, The Rice Journal and Southern Farmer, The Milk Dealer, The Silk Worm and World Agriculture.

The Library also has on file the following scientific journals related to agriculture:—

Annals of Applied Biology, Botanical Gazette, Bulletin of Entomological Research, Chemical Abstracts, Journal of Bacteriology, Journal of Biological Chemistry, Journal of Ecology, Journal of Experimental Zoology, Journal of Heredity, Journal of Home Economics, Journal of Genetics, Philippine Journal of Science, Physiological Reviews, Review of Applied Entomology Series A and B, and Science (China).

In addition to the above technical and scientific publications, the Library includes a number of farm periodicals and live-stock breeding association herd books and journals.

In some cases the files of these publications are complete, while in other cases they are complete since 1910.

Requirements for Graduation

In order to be eligible for the degree of Bachelor of Science in Agriculture, the student must meet the following conditions:

He must have successfully completed 140 credit-units of collegiate work, including the prescribed amount of work in each department or group, and must, in addition have to his credit grade-points to the total of 140. (See page 31 and 32). The other requirements governing residence, recommendation, and fee are given in detail on page 39 of this catalogue.

The prescribed subjects for the degree are:

Biology		19 credits
Chemistry		26 „
Composition in Chinese		8 „
Economics		2 „
English		6 „
Psychology 2		3 „
Religion		8 „
Agricultural Subjects		
Agronomy	30	
Animal Husbandry	6	
Horticulture	6	
Farm Experience	4	
Agr'l Electives	10	56 „
Total Prescribed		128 „

Two weeks before Commencement Day, he must present a satisfactory type-written thesis on some special agricultural topic which has been approved by the Dean and the Senior Professor in the department in which he is specializing. The problem on which the thesis will be based must be selected by the student and approved not later than the beginning of the last semester of his senior year.

Theses of successful candidates will be bound and placed on file in the College Library. Those of special merit will be published in the Lingnaam Agricultural Review, and in the Lingnaam Agricultural Quarterly.

General Statement of Courses

THE COLLEGE OF AGRICULTURE offers three types of courses:

1. Course leading to the degree of Bachelor of Science in Agriculture.
2. One Year Course in General Agriculture.
3. Six Months Course in Sericulture.

The entrance requirements appear on pages 26-29. General information about required and elective courses is found on page 46.

The entrance requirements for the one year course shall be (1) that the student must have finished three years of work in a middle school of good standing; (2) that he must be 18 years of age, Chinese count; (3) that he must pass an examination in Chinese composition.

A reading knowledge of a certain amount of English, though not required, would be a great advantage to the student.

The courses in the College of Agiculture are chiefly classified under the following five heads: Agricultural Manufacturing, Agronomy, Animal Husbandry, Horticulture and Sericulture. These include only those subjects offered in the four year and one year courses. All one year courses are prefixed by the letter "Y", and all summer courses by the letter "S."

The One Year Course in Agriculture

For those who because of financial or other reasons cannot take the full four year course in agriculture, a special one year course is provided. The attempt is to give the student as thoroughly practical and technical a training as is possible in one year.

The course should train students especially for positions as farm managers, for agricultural investigations or extension work, and for positions as teachers of agriculture in lower schools.

A certificate showing that the one year course in agriculture has been completed will be granted students who successfully finish this course.

The Six Months Course in Sericulture

This course is primarily designed to train men to become high class silk worm egg producers. Most of the work is of a practical nature and trains the student to rear silk worms according to modern scientific methods, and to produce disease-free silk worm eggs. Sufficient instruction in botany, zoology and general agriculture is given to enable the student to grasp the reasons for the application of scientific methods. Considerable attention is also given to mulberry culture. A summary outline of the subjects offered in this course is tabulated on page 95. For further details address Sericulture, College of Agriculture, Canton Christian College, Canton, China.

Additional information about the buildings used, the equipment, and the aim and scope of the courses in Sericulture is given on a later page, under the heading "Sericulture."

Sericulture Apprentices

Men between 20 and 30 years of age wishing to learn the business of rearing silk worms and producing eggs may come to the College as apprentices. They must stay from the first of March through October and will be expected to work ten hours a day. They will be furnished with living quarters and six dollars a month for board.

SUMMARY OF AGRICULTURAL COURSES

FOUR YEAR GROUP

(Minimum 16, Maximum 22 credit-units)

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	CREDITS	SUBJECTS	CREDITS
FRESHMAN	Biology 2	4	Psychology 2	3
	*Comp. in Chinese 11a	2	Biology 3	4
	Chemistry 1a	6	Chemistry 1b	6
	English 2a	3	English 2b	3
	Animal Husbandry 1	3	Agronomy 1	3
		18		19
SOPHOMORE	Chemistry 12	6	*Comp. in Chinese 11b	2
	Biology 6	2	Chemistry 14	4
	Horticulture 11a	3	Animal Husbandry 13	3
	Biology 12	3	Agronomy 12	2
	Agronomy 11	3	Biology 14	3
		17		14
	** Electives		** Electives	
JUNIOR	*Religion	2	*Religion	2
	Chemistry 45	4	Biology 31b	3
	Biology 31a	3	Agronomy 34	3
	Agronomy 33	3	Agronomy 31b	3
	Agronomy 31a	3	Agronomy 41 3	
	Horticulture 31a	3	or Animal H'dry. 35	2
		18	Agr'l. Economics	2
				15 or 16
	** Electives		** Electives	
SENIOR	*Comp. in Chinese 31a	2	*Comp. in Chinese 31b	2
	*Religion	2	*Religion	2
	Agronomy 37a	2	Agronomy 37b	2
	Agronomy 40	3	„ 50	3
		9		9
	** Electives		** Electives	

NOTE: *Eight credits in Religion and eight credits in Composition in Chinese are required for a degree. These subjects may be taken at other times than indicated in the above outline.

** The maximum depends on standing. See rule on page 31.

SUMMARY OF AGRICULTURAL COURSES

ONE YEAR GROUP

(Minimum 16, Maximum 22 credit-units)

SEMESTER I		SEMESTER II	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
Agronomy Y7a	3	Agronomy Y7b	3
Animal Husbandry Y6	3	Horticulture Y8	3
Horticulture Y6	3	Horticulture Y7b	3
Animal Husbandry Y7	3	Animal Husbandry Y8	3
Horticulture Y7a	3	Agronomy Y8	3
Agronomy Y6	3	Chinese Y6b	1
Chinese Y6a	1	Religion Y6	1
	19		17

NOTE: As additional requirements for graduation in this course, the student must spend four weeks in practical work with any department he chooses and six weeks in practical sericulture or just as much time as necessary for the rearing of one generation of silk worms.

SIX MONTHS SERICULTURE COURSE

SUBJECTS	HOURS PER WEEK	NO. OF MONTHS	SUBJECTS	HOURS PER WEEK	NO. OF MONTHS
Zoology	5	1	History of Sericulture	3	1
Botany	5	1	Preparation of Raw Silk	2	2
General Agriculture	5	1	Manufacture of Silk	1	2
Anatomy & Physiology of Silk Worms	3	1	Mulberry Culture	5	2
Heredity & Breeding	2	1	Practical Work in Silk Worm Rearing	10	6
Microbiology	5	1	Practical Work in Mulberry Culture	10	6
Methods of Rearing Silk Worms	5	1			

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COURSES OF STUDY IN DETAIL

AGRICULTURE

s1. Summer Course in Agriculture. This course is especially planned for rural pastors and teachers. Special lectures on various agricultural subjects will be given. In the laboratory period observation trips about the college farm and other farms are made, and for a part of the time the students are given work in the gardens and fields in order to be able to better understand the farmers' problems.

Ten lectures and four two-hour laboratory periods during Summer Session.

11. Farm Experience. A first hand knowledge of farm conditions and farm work is essential to the development of the fullest efficiency of those intending to do work along agricultural lines. For this season a minimum of two months of actual farm experience is required of all agricultural students qualifying for a degree. This work should be carried out during vacation periods and must be completed before the student registers for his senior year. For those qualifying for a junior certificate in agriculture, one month of such work, completed before the student registers for his second year, is required.

4 credits toward the degree; 2 credits toward junior certificate.

AGRICULTURAL MANUFACTURING

Professor P. K. Fu

31. Canning and Preserving. A general and practical course in the manufacturing of agricultural products, such as canning and preserving fruits and vegetables, starch and sugar making, etc. The laboratory work consists of inspection trips and actual preparation of the various manufactured products. Prerequisites: Biology 12 and Chemistry 14.

Lectures 1 hour, laboratory 4 hours (3 credits); one semester.

32. Special Problems in Canning and Preserving. In this course, the student is given work on preserving and canning problems in which he is most interested. Upon completion of the course, the student is required to write a report on the results obtained.

Discussion and laboratory 4 hours (2 credits); one semester.

AGRONOMY

Associate Professor Edward Shim; Assistant Professor Frank F. Kan; Mr. Edward R. Ding; Mr. Cheung Sai Hung

1. Garden, Orchard, Field Crops and Soils. An introduction to the growing of different garden, orchard and field crops and general study of soils.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

y6. Field Machinery. Proper adjustment, repair, care and operation of field machinery.

Lectures 2 hours, Laboratory 2 hours (3 credits); one semester.

y7a-b. General Farm Crops and Soil Management. Grain, fiber, forage, root and tuber crops. A general discussion of soils.

Lectures 2 hours, laboratory or field 2 hours (3 credits); two semesters.

y8. General Farm Management and Marketing.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

11. Farm Equipment. The mechanical principles of different types of farm machinery, and their proper adjustment. Required of all agricultural students.

Class-room 2 hours, field and laboratory 2 hours (3 credits); one semester.

12. Geology. An appreciation of the general principles underlying the structure and formation of the earth. Earth processes and earth history in relation to modern life, human activity, and especially to agriculture; the formation of soil from different types of rocks; elementary mineralogy and meteorology. Required of all agricultural students.

Chamberlain and Salesbury: A College Text-book of Geology.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31a-b. Farm Crops: Cereals, Grasses, Fiber and Root Crops. A study of cereals, grasses and fiber crops adapted to this region. These crops will be considered from the point of view of grain, forage and fiber production. Required of all agricultural students.

Class-room 2 hours, field work 2 hours (3 credits); two semesters.

33. Soil Physics. Microscopic study of soil particles; taking soil samples; determination of capillary moisture; influence of color on soil temperature; variation of soil temperature at different depths; the absorption of heat by soils; the effect of lime upon soil; determination of the weight of soil per acre; effect of humus on the water-holding capacity of soils; rate of rise of capillary water from soils; the effect of organic matter on the baking of soil. Mechanical analysis of soils. Agronomy 33 and 34 are required of all students.

Lyon, Fippin and Buckman: Soil Physics.

Class-room 1 hour, laboratory 4 hours (3 credits); one semester.

34. Soil Fertility. The study of food combinations of plants; the effect of different crops and different systems of farming upon the depletion of soil fertility; the proper methods of handling, preserving, and applying barnyard manure and night soil; the determination of the needs of soil for commercial fertilizers and the

kind of fertilizers to apply. Prerequisites: Chemistry 12 and Agronomy 33.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

37a-b. IRRIGATION AND DRAINAGE. Irrigation water supply; construction of canals, reservoirs and ponds; pipe lines. Methods of applying water to various crops. Drainage, rainfall and evaporation; advantage and methods of draining retentive soils. Farm mechanics. Pumps, devices and appliances used in irrigating; making tile drains, etc. Required of all agricultural students.

Ellicott: Practical Farm Drainage.

Class-room 1 hour, field work 2 hours (2 credits); two semesters.

41. PLANT BREEDING. The dependence of man upon domesticated and cultivated plants; the origin of domesticated plants from the wild; effect of natural selection; unit characters; variability of single characters; transmission of characters; heredity and environment; systematic improvement of plants. The work on the papaya and rice being carried out on the campus offers ideal facilities in plant breeding. Required of students who do not take Animal Breeding.

Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

42. FIBROUS CROPS. A study of sugar cane and cotton with reference to conditions of soil, climate, culture, varieties, harvesting, marketing, and grading. Other fibrous crops may be also included in this course.

Morgan. Field Crops for the Cotton-Belt.

Lecture 1 hour, laboratory 2 hours (2 credits); one semester.

46. STATIONARY EQUIPMENT. Special attention to stationary machinery, such as grinding and pumping machinery, and engines. The construction of farm machinery, and the grinding and repairing of tools is taken up in the laboratory. Prerequisite: Agronomy 11.

Class-room 2 hours, laboratory 2 hours (3 credits); one semester.

49. GENERAL FARM MANAGEMENT. The purpose of this course is to assemble and correlate the principles involved in the agricultural courses taught in the institution, paying special attention to types of farming, labor questions and farm accounting. Required of all agricultural students.

Warren: Farm Management.

Class-room 2 hours, laboratory or field 2 hours (3 credits); one semester.

50. MARKETING. Factors essential to successful marketing of all kinds of farm produce; cooperative marketing, cold storage, proper packing for transportation, etc. Required of all agricultural students.

Class-room 3 hours one semester.

51. SPECIAL PROBLEMS IN AGRONOMY. In this course the student is given work on special problems in field crops in which he is most interested. The work is assigned and may be done in either semester or during summer vacation. The amount of credit depends on the work accomplished. For advanced students only.

ANIMAL HUSBANDRY

PROFESSOR C. O. LEVINE; MR. P. S. CHUNG; MR. POND LEE; MR. HOH LEUNG.

THE COURSES in Animal Husbandry are so arranged as to give the student special instruction in the selection, breeding, feeding, marketing and management of all kinds of live-stock. Attention is given to sanitation and the treatment of the more common forms of disease to which animals are subject. The student is taught to study the animal from the standpoint of the breeder and the feeder. The college live stock includes poultry, hogs, buffaloes, both for milk and draft purposes, horses, dairy cows and milk goats. A model dairy of fifty-five animals including buffaloes, pure-bred cows and goats supplies milk to the community. The management of this dairy offers practical demonstration to students interested in dairyirg.

ANIMAL HUSBANDRY 1, 11, 13, 14, 31 and 35 are required of all students specializing in Animal Husbandry; 1 and 13 are required of all agricultural students; and Y6, Y7 and Y8 are offered for students taking the one-year course in agriculture.

1. FARM ANIMALS. An introduction to the courses in poultry and live stock. The aim is to give the student acquaintance with the more common breeds and varieties of animals, and provide practice in judging, feeding and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y6. A GENERAL STUDY OF FARM LIVE-STOCK. Study of breeds, judging, feeding and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y7. DAIRYING. Dairy feeding and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y8. POULTRY PRODUCTION. General problems in poultry raising; including incubation, housing, feeding, general management and study of breeds.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

11. STOCK JUDGING. Judging of horses, beef cattle, water buffaloes, hogs and general study of breeds of live-stock.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

12. MEATS. Killing, dressing and curing of beef, pork, mutton and poultry. Prerequisite: Animal Husbandry 1.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester..

13. ANIMAL NUTRITION. The digestive system; fundamental basis of animal nutrition; nutritive ratio; feeds; feeding standards and problems.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

14. POULTRY PRODUCTION. General problems of poultry raising including incubation, housing, feeding and diseases. Part of the field work consists in the actual care of a flock by the students, under the supervision of an instructor.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31. DAIRYING. Dairy live stock judging and dairying; sanitation and live stock buildings. Prerequisite: Animal Husbandry 1.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

32. DAIRY MANUFACTURING. This course includes the manufacturing of cream, butter, cheese, condensed milk, ice-cream and other dairy products; marketing; and laboratory study of the bacteria related to dairy manufacturing. Prerequisites: Animal Husbandry 31 and Biology 12.

Lectures 2 hours, laboratory 3 hours (3 credits); one semester.

33. CREAM SEPARATION AND BUTTER MAKING. This course is given during the vacation between semesters. Prerequisite: Animal Husbandry 31.

Lecture 1 hour, laboratory 2 to 3 hours a day for 10 days (1 credit).

43. DAIRY BACTERIOLOGY. Bacteria of milk and other dairy products; sources, modes of entry and changes produced. Prerequisite: Biology 12.

Lecture 1 hour, laboratory 2 hours (3 credits); one semester.

35. PRINCIPLES OF ANIMAL BREEDING. Origin of domesticated animals; natural selection; unit characters, variability; transmission of characters; heredity; environment; systematic improvement of animals; breed associations; breeding records; and the value of pedigreed stock. Required of students specializing in Animal Husbandry. Prerequisites: Biology 3 and Animal Husbandry 1.

2 hours; one semester.

37. DAIRY SEMINAR. This course includes a review of dairy periodicals, Experiment Station bulletins, books and other dairy literature. Open to advanced students only. Prerequisite: Animal Husbandry 31.

Lectures and Discussion 1 hour (1 credit); one semester.

38. BEEF CATTLE AND SWINE PRODUCTION. The principles governing the raising of beef cattle and swine for market and breeding; types; prevention of diseases; care of breeding stock and feeding. Prerequisites: Animal Husbandry 1 and 11.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

48. SPECIAL PROBLEMS IN EITHER DAIRY, POULTRY, SWINE OR BEEF CATTLE PRODUCTION. The work is assigned, and may be done either semester or during the summer vacation. For advanced students only. The amount of credit depends on the work accomplished.

47. DISEASES OF FARM ANIMALS. Common diseases of farm animals. The subject includes wounds and their treatment; examination of animals for diseases; diagnosis and treatment of diseases; practice in castration, spaying and caponizing; instruction in obstetrics, care of mother at parturition and diseases affecting mother and offspring. Microscopic studies in the laboratory are made of the organisms and parasites associated with diseases. Sanitation, and other measures necessary for the prevention of diseases. Prerequisites: Animal Husbandry 1 and 11.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

BIOLOGY

PROFESSOR G. W. GROFF; PROFESSOR C. W. HOWARD; ASSOCIATE PROFESSOR CHEUNG CHEUK KWAN; ASSISTANT PROFESSOR F. A. MCCLURE; MR. POND LEE.

THE BIOLOGICAL DEPARTMENT serves both the College of Arts and Sciences and the College of Agriculture. Students in Agriculture may elect courses in Biology besides those which are required, with approval of their advisor.

2. BOTANY. Prescribed for all students in the College of Agriculture. For details see page 56.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

3. ZOOLOGY. Prescribed for all students in the College of Agriculture. For details see page 56.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

6. SYSTEMATIC BOTANY. Prescribed for all students in the College of Agriculture. Collecting and herbarium methods are studied. See page 57 of this catalogue for further details.

Lecture 1 hour, laboratory 3 hours (2 credits); one semester.

12. AGRICULTURAL BACTERIOLOGY. The nature of bacteria, fermentation; relation of bacteria to the origin of soil; the transformation of carbon and nitrogen; the manure heap and sewage; reclaiming lost nitrogen; relation of bacteria to the dairy and its

products; relation of bacteria to miscellaneous farm products; parasitic bacteria.

Conn: Agricultural Bacteriology.

Lecture 1 hour, laboratory 4 hours (3 credits); one semester.

14. Plant Physiology. Lectures and readings on the growth, nutrition, irritability, reproduction and variation of plants, combined with laboratory work. Prerequisite: Biology 2.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

31a-b. Economic Zoology (Entomology). A study of the forms of animal life harmful to or beneficial to man, his crops and domestic animals. Prerequisite: Biology 2 and 3.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

33. Plant Pathology. A consideration of the bacteria and fungi which attack cultivated crops as well as other causes of plant diseases. Prerequisites: Biology 2, 3 and 12.

Lecture 1 hour, laboratory 4 hours (3 credits); one semester.

CHEMISTRY

Professor C. N. Laird; Assistant Professor Chiu Yan Tsz; Mr. H. W. House

THE DEPARTMENT of Chemistry serves the College of Agriculture as well as the College of Arts and Sciences. Students in Agriculture may elect courses in addition to those below which are prescribed, with the approval of their advisor, provided they have the prerequisites.

1a-b. General Inorganic Chemistry. Prescribed for all Freshmen. See page 68 for details.

Lectures 3 hours, laboratory 6 hours (6 credits); two semesters.

12. Analytical Chemistry. Prescribed for all Sophomores. See page 68 for details.

Lectures 2 hours, laboratory 9 hours (6 credits); one semester.

14. Elementary Organic Chemistry. Prescribed for all Sophomores. See page 68 for details.

Lectures 3 hours, laboratory 3 hours (4 credits); one semester.

45. Agricultural Chemistry. Treated chiefly from the organic and bio-chemical side. Factors which influence the composition and feeding value of crops: crop rotation; chemistry of plants and animals; chemical analysis of soils, fertilizers and farm products. Prescribed for all Juniors. Prerequisite: Chemistry 14. Laboratory fee: $10.00.

Stoddart: Chemistry of Agriculture.

Lectures 2 hours, laboratory 4 hours (4 credits); one semester.

47. Food Analysis. See page 70 for details.

Lectures 1 hour, laboratory 6 hours (4 credits); one semester.

COMPOSITION IN CHINESE

Assistant Professor Chan Shau Yi; Mr. Hoh Leung.

11a-b. Prescribed for all Students. For details see page 72. In addition to the regular class room work, Agricultural students are encouraged to collect material in English and prepare in Chinese talks and addresses on topics related to their work to be delivered in the class room and elsewhere as occasions offer in connection with the extension work of the College of Agriculture. Students find expression for their best translated and original productions through the agricultural publications of the College and the *Naam Taai Magazine*.

2 hours; two semesters.

Y6a-b. This course is designed to acquaint the students with Chinese agricultural literature and technical terms. Compositions in Chinese on agricultural subjects are required.

1 hour; two semesters.

31a-b. This course, also prescribed for agricultural students, is a continuation of course 11.

2 hours; two semesters.

ECONOMICS

31. Agricultural Economics. A brief introduction to elementary economic theory, followed by a study of some problems of agriculture in their economic aspects, emphasizing conditions in China. Some topics considered are: the statistics of the world's agricultural geography, resources, products and trade; crop yields and prices; agricultural enterprise and farm organizations; standardization of agricultural products; co-operative associations; markets and marketing methods; farm incomes and farm cost accounting; land tenure; rural credit; colonization projects; agricultural legislation and agrarian policies.

Taylor: Agricultural Economics, and syllabi.

Readings in *Nourse*: Agricultural Economics, and other source materials.

2 hours; one semester.

EDUCATION

31 Rural Education. A general survey of rural school systems in China, India, America, Denmark, and elsewhere. With this background, the student will work out a program suitable for his own community.

Lecture and conference 2 hours (2 credits); one semester.

ENGLISH

PROFESSOR J. C. GRIGGS; ASSISTANT PROFESSOR CHAN SHAU YI

2a-b. ENGLISH COMPOSITION. Prescribed for all Freshmen. See page 79 for details. 3 hours; two semesters.

HORTICULTURE

PROFESSOR G. W. GROFF; ASSOCIATE PROFESSOR CHEUNG CHEUK KWAN; MR. EDWARD R. DING; MR. YUEN HON PONG; MR. SHIU IU NIN.

THE COURSES in horticulture are so arranged as to give the student instruction in growing and marketing vegetables, flowers and fruits. A wealth of illustrative material for the classes in horticulture is found in the large collection of foreign and native species growing upon the College campus, in the lychee and citrus orchards to the south of the College, in the extensive vegetable gardens close at hand, and in the commercial flower gardens at Fati. Each student is required to maintain a garden of his own where he can put into practice the ideas received. Agronomy 1 serves as an introduction to the courses in horticulture.

All Agricultural students are required to take Horticulture 11a and 31a. All students specializing in Horticulture are required to take Horticulture 11b, 12, 31b, 32, 33, and 41. Students other than those specializing in Horticulture may take Horticultural courses as electives.

Y6. VEGETABLE CULTURE. Fundamentals of vegetable culture; propagation; cultural methods; insect and disease control; marketing.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

Y7a-b. FRUIT CULTURE. Fundamentals of fruit growing; culture; propagation; fertilization; pruning; orchard planting; insect and disease control; marketing. Special emphasis on tropical and sub-tropical fruits.

Lectures 2 hours, laboratory 2 hours (3 credits); two semesters.

Y8. GENERAL FORESTRY MANAGEMENT. Forestry methods; study of trees for forestry planting and management.

Lectures 2 hours, laboratory 2 hours (3 credits); one semester.

11a-b. VEGETABLE CULTURE. The problems and possibilities of the market garden, the necessary soil requirements and sanitary methods of applying fertilizers; methods of starting early fall vegetables, by protecting the seedling from the intense heat of late summer, form a prominent place in the course. Systems of cropping; methods of tilling; irrigating; grading, packing and marketing. Bulletins and reference work.

Class-room 2 hours, laboratory 3 hours (3 credits); one semester.

12. FLORICULTURE. A practical course in flower gardening. The aim of the course is to train students in the selection and care of flowers and plants for the home and garden. Methods of propagating, potting and planting are taught in the laboratory. Students other than those studying agriculture may elect this course.

Lectures 2 hours, laboratory 3 hours (3 credits); one semester.

15. DENDROLOGY. A study of trees and shrubs in the vicinity of the college with a view to identification under fall and winter conditions. Students other than those studying agriculture will find this a useful course.

Lecture 1 hour, field 3 hours (2 credits); one semester.

18. LANDSCAPE GARDENING. This course gives to the student an idea of some of the requirements for beautifying homes and parks by the proper planting of flowers, trees and shrubs. The various characteristics of plants are studied, with their grouping. Students are given some practice with the transit and level in the laying out of walks, etc. Planting plans are required in field work.

Lecture 1 hour, field 3 hours (2 credits); one semester.

31a-b. GENERAL FRUIT CULTURE. The problems and possibilities of fruit growing and fruit marketing; soil requirements and fertilization; the natural methods of propagation; production of seedlings for stock; grafting, budding and layering; the making of cuttings; special requirements for propagating and growing commercial fruits.

Lectures 2 hours, field work 2 hours (3 credits); two semesters.

32. FRUIT CULTURE. A more specialized course in fruit growing, with special reference to the lychee and lungan, the citrus fruits and the papaya. An analytical study of the *Sapindaceae* and *Rutaceae* families of plants is conducted with the object of enabling the student to classify properly the fruits of these families, and of showing the student the possibilities of using the near and wild relatives of these fruits in propagating and hybridizing. A study of varieties is included. Low-land fruit culture as practised in the delta regions of Kwangtung compared to hill culture as practised in the United States.

Lecture 1 hour, field work 4 hours (3 credits); one semester.

33a-b. PLANT PROPAGATION. A more specialized course in advanced methods of plant propagation and equipment.

Lecture 1 hour, field work 3 hours (2 credits); two semesters.

36. FOREST PRACTICE. Propagation of forest trees; nursery methods and practices; the cultivation of wind breaks. Forest protection, etc. Bulletins and reference reading.

Lectures 2 hours, field 2 hours (3 credits); one semester.

41. PRACTICAL PROJECTS IN HORTICULTURE. A thoroughly practical course in vegetable growing, fruit growing, landscape

gardening, or flower growing. The work is assigned, and may be done along any one branch of horticulture as named above. One credit for every three hours of work. (Not given for less than three students).

RELIGION

PROFESSOR A. BAXTER.

Students may meet the requirement in Religion by electing from among the following courses, described on page 88 and 89, offered the students in the College of Arts and Sciences.

1, CHRISTIAN ETHICS.
2, THE SOCIAL TEACHING OF THE BIBLE.
3a-b, HISTORY OF RELIGIONS.
5a-b, OLD TESTAMENT HISTORY.
11a-b, CHRISTIAN APOLOGETICS.
13, THE PERSON OF JESUS CHRIST.
31a-b, RELIGIOUS HISTORY OF CHINA.

Y6. This course consists of a study of the relation of man to God as manifested in agricultural service.

1 hour; one semester.

SERICULTURE

PROFESSOR C. W. HOWARD

For the work in Sericulture two large brick buildings have been provided. One is the gift of The Silk Association of America and is used as a rearing house and laboratory; the other is the gift of Mr. Marcus Frieder, The General Silk Importing Company, New York City, and is a dormitory for short course students. The buildings are well equipped for teaching modern scientific methods in rearing and caring for silk worms and their products; and especially for the production of disease-free silk worm eggs or "seed".

In addition to the regular college course in Sericulture arrangements can be made for advanced courses of study. Special emphasis is given to short courses for farmers. A small model farm house for rearing silk worms makes it possible to demonstrate better methods under conditions normal to the farmer. The production of silk worm egg-sheets on a commercial scale is a special feature of the work. These are marketed to the farmers. Extension work is also carried on among those needing instruction in rearing their worms.

There are also extensive mulberry fields and ample opportunity for instruction in mulberry culture and for experimental work on this crop in its relation to the production of silk.

31. The methods of producing silk in China and other countries. A study of the silk worm, its morphology, life history, diseases, and enemies. Prerequisites: Biology 2 and 3.

COLLEGE PREPARATORY CLASS

The highest class of the Canton Christian College Middle School is organized as the College Preparatory Class, under a Director and an executive committee composed of the Director, the Principal of the Middle School and the Deans of the Colleges. The teaching is done almost entirely by members of the faculty of the College of Arts and Sciences. In size of classes, number of periods per week required of students, rules of discipline, etc., this class is intermediate between the Middle School and College classes. Women may be admitted to this class.

The organization of this class facilitates the enrollment of students who may have graduated from other middle schools in which not much of the instruction may have been in English, or who have not had the opportunities presented here of studying the sciences, but who would not care to enroll again in a Middle School.

In general, the information given on pages 26 to 44 of this catalogue which can be applied to all the students of the Colleges applies to the students of this class, with certain exceptions which are hereinafter noted. For further information address: Director, College Preparatory Class, Canton Christian College, Canton.

ADMISSION

Application for admission is made to the Director, and should be made sufficiently far in advance of the opening of the term to permit of verification of the record of the applicant.

The requirements for admission are:

CHINESE Geography of China; History of China; Chinese Literature and Composition (國文). It is assumed that the candidate will have studied the Chinese Language, Literature and Composition for at least ten years as is done in modern schools.

ENGLISH 1. Grammar, sentence structure, and common idioms equal in amount to book IV of Graybill's "Mastery of English" Series.

2. Ease in sight reading and simple composition including letter-writing. Applicants should have read between 2,000 and 3,000 pages of English, including texts of all kinds studied in English.

3. Readiness of speech and understanding of spoken English sufficient for profitable participation in recitations carried on through the medium of the English Language.

MATHEMATICS Algebra, as far as quadratic equations; Plane Geometry.

HISTORY Either History of one western country or Ancient and Medieval History.

SCIENCE Geography of the world; Elementary Science, including Physiology and Hygiene.

OPTIONAL SUBJECTS In addition to the subjects mentioned above, the candidate is expected to offer enough supplementary subjects to prove that the first three years of his middle school course have been studied in their entirety.

Candidates for admission may meet the above requirement in one of three ways. They may either (1) pass all entrance examinations, or (2) present a certificate from an accredited school (list on page 29), or (3) present a Junior Local Examination certificate for examinations given by Cambridge, Oxford, or Hongkong University, or the equivalent under the American College Entrance Examination Board. This Junior certificate will be accepted for all subjects covered by it, except Chinese. A candidate may present a certificate for some subjects and take the examinations on the remaining required subjects. The applicant must have a clean record from the school or schools previously attended, attested by a certificate indicating honorable dismissal or withdrawal. The Director will welcome correspondence on individual cases.

Matriculation, Enrollment and Standing

The procedure given on pages 29 and 30 for the matriculation and enrollment of college students applies to members of this class.

The outline of required courses, with possible electives, is on the next page. Forty-four credit-hours of work are required in this year for graduation.

The passing grade is a semester mark of 60 or higher.

The re-examination rule applies to members of this class.

Grade points are not given members of this class.

Fees

All of the fees charged College Preparatory class students are the same as those charged College students, as listed on pages 33 and 34, except *Tuition*, which is $160 for the year (payable 1st semester, $100; 2nd semester, $60). The Physics Laboratory fee ($15.00) is charged in addition to the regular tuition.

General Regulations

The general regulations given on pages 40 to 44 apply to members of this class, with the following changes or additions:

RULES OF ATTENDANCE

Absences from Class

Approval for absence from class exercises must be obtained from the Director. Absences unaccounted for will be investigated by him, and action taken as deemed necessary.

Absences from the Campus

Members of this class shall have the privilege of "absence from the campus without permit" on Mondays and Saturdays only, when absence does not conflict with any college exercises. They must report at their dormitory for roll-call on the other days of the week at such time (approximately 5:00 p.m.) and under such regulations as the Director may announce. They must account for absence from roll-call in the same manner as for absence from class. Evening roll-call will be taken, as arranged for by the Director.

COLLEGE PREPARATORY CLASS COURSES

PREREQUISITE TO THE FOLLOWING GROUPS IN THE

College of Arts and Sciences

General Arts, Education, Pre-theological and Business Administration Groups			Natural Science and Chemistry Groups, and Certificate in Business Administration		
	Semester			*Semester*	
Subject	**One**	**Two**	**Subject**	**One**	**Two**
English A, B	5	5	English A, B	5	5
Physics A, B	*6	*6	Physics A, B	*6	*6
History A, B	3	3	History A, B	3	3
Religion A, B	1	1	Religion A, B	1	1
Chinese A, B	3	3	Chinese A, B	3	3
Elective, not less than	4	4	Mathematics A, B	4	4
to be selected from			Elective		
†English C, D			to be selected from		
Mathematics A, B 4, 4			†English C, D		
Sociology A, B 3, 3			Sociology A, B 3, 3		
††Chinese C, D 2, 2			††Chinese C, D 2, 2		
Total not less than	‡22	‡22	Total not less than	‡22	‡22

PREREQUISITE TO COURSE FOR A DEGREE IN THE

College of Agriculture

First Semester		*Second Semester*	
Subject	**Hrs.**	**Subject**	**Hrs.**
English A	5	English B	5
Physics A	*6	Physics B	*6
Mathematics A	4	Sociology D	3
Religion A	1	Religion B	1
Chinese A	3	Chinese B	3
Elective not less than	3	Elective not less than	3
to be selected from		to be selected from	
†English C		†English D	
Sociology A 3		Sociology B 3	
††Chinese C 2		††Chinese D 2	
History A 3		History B 3	
Total not less than ‡22		Total not less than ‡22	

*4 hours class-room, 4 hours laboratory or field work, 6 credit-hours.

†English C and D may be required of any student upon recommendation of the instructor in English A and B and is open to no others.

††Chinese C and D may be required of any student upon recommendation of the instructor in Chinese A and B and is open to no others.

‡The maximum number of hours (credit-hours) per week for which a student may enroll is 25. Students are not permitted to enroll for less than 22 hours per week unless they are doing other work of a recognized character or to drop courses during the semester if this reduces the amount of work they are doing to less than 18 hours per week.

PRE-MEDICAL GROUP: See page 54.

COURSES OF STUDY IN DETAIL.

CHINESE A and B. COMPOSITION (國文). Required of all students.

Commercial Press, Ltd: Middle School Kwok Man (國文). Book 4.

3 hours; two semesters.

CHINESE C and D. SUPPLEMENTARY CHINESE (補習科). Required of all students whose Chinese is not considered adequate. Not open to others.

2 hours; two semesters.

ENGLISH A and B. Prescribed for all students. The aim of this course is clear, simple, and logical expression, preparing the student to use English more freely in his other courses as well as to continue the study of the language itself. Composition with emphasis on the principles of structure in the sentence and paragraph, and reading of texts sufficiently varied to develop the student's vocabulary.

Ward: Theme Building.
Smith: Short Stories, Old and New (Ginn).
Lowell: Vision of Sir Launfal, edited by Davidson (Houghton Mifflin).,
Scott: Ivanhoe, Abridged (Longmans' Class Books of English Literature)
or *Shakespeare*: Julius Caesar, Hudson Edition (Ginn).
Burroughs: Afoot and Afloat (Houghton Mifflin.)

5 hours; two semesters.

ENGLISH C and D. SUPPLEMENTARY ENGLISH. A course designed to supplement courses A and B, and prescribed for certain students on recommendation of the instructor of English A or B. No credit.

2 hours; two semesters.

HISTORY A and B. ANCIENT AND MEDIÆVAL HISTORY TO THE PROTESTANT REVOLUTION. Assigned readings and essays.

Robinson and Breasted: History of Europe: Ancient and Mediaeval.

3 hours; two semesters.

MATHEMATICS A. INTERMEDIATE ALGEBRA. Numerical and literal quadratic equations; irrational forms; theory of quadratic equations; surds; ratio; proportion; variation; logarithms, arithmetical, geometrical and harmonical progressions.

Hawkes-Luby-Touton: Second Course in Algebra, Revised Edition.

4 hours; one semester.

MATHEMATICS B. PLANE TRIGONOMETRY.

Bauer and Brooke: Plane and Spherical Trigonometry.

4 hours; one semester.

PHYSICS A and B. INTRODUCTORY PHYSICS. The chief object is to give the student an understanding of how physical principles underlie many experiences in every-day life and how some of the laws of physical science are applied in the home and the industries. A working knowledge of elementary algebra and plane geometry is required.

Black and Davis: Practical Physics, Revised Edition.
Stifler: Laboratory Exercises in Elementary Physics.

Class-room 4 hours, laboratory 4 hours (3 credits); two semesters.

RELIGION A and B. THE CHRISTIAN CHURCH. The aim of this course is to give some idea of the nature, purpose and progress of the Christian Church, and to show its influence on the social, moral and religious development of Christian countries.

1 hour; two semesters.

SOCIOLOGY A and B. CIVICS AND SOCIOLOGY. An introduction to China's problems in social science.

Dole: The New American Citizen.
Towne: Social Problems.

3 hours; two semesters.

SOCIOLOGY D. RURAL SOCIOLOGY. A study of the social problems that are peculiar to the rural community, such as village organization, sanitation problems, social and religious centers for the rural population, etc.

3 hours; one semester.

Commencement Honors

June 23, 1922

Degrees Awarded

BACHELOR OF ARTS

陳文駐 Chan Man Chue
馮麗榮 Fung Lai Wing, Miss
甘乃光 Kam Naai Kwong
高廷梓 Ko Ting Tsz
郭文彬 Kwok Man Pan
黎成材 Lai Shing Tsoi
譚卓垣 Taam Cheuk Woon
溫耀猋 Wan Iu Pan

BACHELOR OF SCIENCE IN AGRICULTURE.

何 亮 Hoh Leung
古桂芬 Koo Kwai Fan
黃澤普 Wong Chaak Po

Two Year Junior Certificates Awarded

歐陽錫廉 Au-yeung Sik Lim
陳榮捷 Chan Wing Tsit
陳元素 Chan Yuen So, Miss
章履剛 Cheung Lui Kong
朱 則 Chue Chaak
何澍昌 Hoh Shue Cheung
何隆棠 Hoh Yam Tong
何汝詷 Hoh Yue Tung
江耀彰 Kong Iu Cheung
關文傑 Kwaan Man Kit
林遂意 Lam Sui Yi, Miss
劉耀樞 Lau Iu Shue
李卓垣 Lei Cheuk Woon
李惠馨 Lei Wai Hing, Miss
廖奉靈 Liu Fung Ling, Miss
吳求哲 Ng Kau Tsit
鮑金麒 Paau Kam Kei
唐逸馨 Tong Yat Hing, Miss
曾恩濤 Tsang Yan To
謝天錫 Tse Tin Sik
黃眞汝 Wong Chan Yue, Miss
王愼謙 Wong Shan Him
黃翠鳳 Wong Tsui Fung, Miss
黃榮詔 Wong Wing Chiu
黃仁讓 Wong Yan Yeung
丘蘭秀 Yau Laan Shau
楊煜樞 Yeung Yuk Shue
容秉衡 Yung Ping Hang

Honor Certificates Awarded

陳元素 Chan Yuen So, Miss
葉瓦才 Ip Leung Tsoi
甘乃光 Kam Naai Kwong
甘汝登 Kam Yue Tang
高廷梓 Ko Ting Tsz
梁孟齊 Leung Maang Tsai
陸啓先 Luk Kai Sin
譚卓垣 Taam Cheuk Woon
謝志媛 Tse Chi Yuen, Miss
黃翠鳳 Wong Tsui Fung, Miss
丘蘭秀 Yau Laan Shau

Prizes Awarded

Honor Prize: 高廷梓 Ko Ting Tsz
Coles Mathematics Prize: 梁孟齊 Leung Maang Tsai
Coles Science Prize: 陸啓先 Luk Kai Sin
Athletics Prize: 曾恩濤 Tsang Yan To

Agricultural Scholarship Prizes:

Agriculture; First, 古桂芬 Koo Kwai Fan
Second, 甘汝登 Kam Yue Tang
Live Stock Judging; First, 陳桂生 Chan Kwai Shang
Second, 黃友祥 Wong Yau Cheung

Graduates of Canton Christian College

Chan Man Chue, B.A., 1922. Graduate Student in America. Address: 1137 Yale Station, New Haven, Conn.

Chan Shau Yi, B.A., 1920. Assistant Professor of Chinese Literature, Canton Christian College, Canton.

Chan Ting Hoi, B.A., 1918. Address: 香山石岐梅基二號

Fung Lai Wing, (Miss) B.A., 1922. Instructor in Science, True Light Middle School, Canton.

Hoh Hung Ping, B.A., 1920. Principal, Tung Chi School, Canton.

Hoh Leung, B.S., 1922. Instructor in Animal Husbandry, College of Agriculture, Canton Christian College, Canton.

Kam Naai Kwong, B.A., 1922. Instructor in Business Administration, Canton Christian College, Canton.

Ko Ting Tsz, B.A., 1922. Graduate Student in America. Address: c/o George Howe Co., 32 Union St., New York City.

Koo Kwai Fan, B.S., 1922. Graduate Student in America. Address: University of Hawaii, Honolulu, H. I.

Kwok Lam Shong, B.A., 1921. Wing On Company, Hongkong.

Kwok Man Pan, B.A., 1922. Instructor in Mathematics and Chemistry, Anglo-Chinese College, Kialak, Swatow.

Lai Shing Tsoi, B.A., 1922. Instructor in English, Government Industrial School, Ching Po, Canton.

Lau Kai Tso, B.A., 1920 Address: Graduate Student in America. 98 Division St , New York City.

Lei Yue Kim, B.A., 1918. Business. Address: Room 305, 2 Rector St., New York City.

Leung Tsau Ming, (Miss) B.A., 1921. M.A., University of Michigan, 1922. Address: 521 Walnut St., Ann Arbor, Michigan.

Lo Ka Ping, B.A., 1918. Teacher, Pui Ching Academy, Canton.

Taam Cheuk Woon, B.A., 1922. Associate Librarian, Canton Christian College, Canton.

Wan Iu Pan, B.A., 1922. Instructor, Graves Theological Seminary, Tung Shan, Canton.

Wong Chaak Po, B.S., 1922. Assistant in Sericulture and in charge of Kwei Chow Station, College of Agriculture, Canton Christian College, Canton.

Wong Kat Chiu, B.A., 1921. Wing On Company, Hongkong.

Yeung Kwok Tsuen, B.A., 1920. M.A., Stanford University, 1921; Principal Primary School, Canton Christian College, Canton.

Register of Students.

1922-23

College of Arts and Sciences

In the following register, the names are spelled according to the standard Cantonese romanization. The rank is that attained by the student at the beginning of Semester I, or on entrance. Se=Senior (100 credits or more), Ju=Junior (65 to 99 credits), So=Sophomore (30 to 64 credits), Fr=Freshman (less than 30 credits), Su=Sub-freshman (of sub-collegiate grade) Under "Sessions," "S" indicates the student was enrolled in the Summer Session, "1" in First Semester and "2" in Second Semester.

	Name	*Original District*	*Rank*	*Sessions*	*Home Address*
區克喧	Au Haak Huen	陽江	Fr	1, 2	Yeung Kong
區　警	Au King	順德	Fr	1, 2	Hongkong
區文鍊	Au Man Lin	番禺	Fr	1,	Canton
區煒彬	Au Wai Pan	新會	Fr	1, 2	Hongkong
歐陽錫濂	Au-yeung Sik Lim	香山	Ju	S	Heung Shan
歐陽祖岸	Au-yeung Tso Kan	新會	Su	S	Canton
陳正立	Chan Ching Laap	南海	Su	S, 1, 2	Canton
陳照源	Chan Chiu Yuen	台山	Su	S, 2	Penang, S. S.
陳存愛	Chan Chuen Oi, Miss	番禺	Su	1	Tungshan, Canton
陳宗堯	Chan Chung Iu	台山	Su	1, 2	Toi Shan
陳中立	Chan Chung Laap	南海	Su	S, 1, 2	Canton
陳杏容	Chan Hang Yung, Miss	番禺	So	1, 2	Canton
陳耀燊	Chan Iu San	寶安	Su	1, 2	Haiphong
陳其芬	Chan Kei Fan		Se	1, 2	Po On
陳公仁	Chan Kung Yan	定安	Fr	1, 2	Hainan
陳禮康	Chan Lai Hong	順德	So	2	Ipoh, Perak, F.M.S
陳來成	Chan Loi Shing	潮安	Fr	1, 2	Swatow
陳炳洪	Chan Ping Hung	新會	Su	1, 2	Hongkong
陳雪蓮	Chan Suet Lin, Miss	東莞	Su	S	Canton
陳　德	Chan Tak, Miss	新會	Su	S, 1	Canton
陳燦耀	Chan Tsaan Iu	台山	Sp	1.	San Francisco, Cal., U.S.A.
陳爵樑	Chan Tseuk Leung	南海	Fr	1, 2	Macao
陳序經	Chan Tsui King	文昌	Su	S	Canton
陳雲振	Chan Wan Chan	南海	Fr	1, 2	Fatshan
陳榮捷	Chan Wing Tsit	開平	Ju	S, 1, 2	Hoi Ping
陳如章	Chan Yue Cheung	台山	So	1, 2	Toi Shan
陳元學	Chan Yuen Kwok	新會	Fr	1, 2	Canton
陳元素	Chan Yuen So, Miss		Ju	1, 2	Canton
鄭國民	Cheng Kwok Man	澄海	Su	S, 1, 2	Swatow
鄭連炬	Cheng Lin Kui	香山	Fr	1	Heung Shan
鄭榮娥	Chan Wing Pan	,,	Fr	1, 2	Heung Shan
卓有亨	Cheuk Yau Hang		Fr	1, 2	Heung Shan
張克純	Cheung Haak Shun	番禺	So	S, 1, 2	Hongkong
張金德	Cheung Kam Tak	四會	Fr	2	Sumatra
張覆剛	Cheung Lui Kong	番禺	Ju	1, 2	Canton
張[illegible]照	Cheung Ming Chiu, Miss	廣州	So	S, 1, 2	Palei, D. E. I.
張德仁	Cheung Tak Yan	番禺	So	S, 1, 2	Honam

張自強	Cheung Tsz Keung	香山	Fr		1, 2	Macao
張益壽	Cheung Yik Shau	開平	Fr		1, 2	Tungshan, Canton
趙子儀	Chiu Tsz Yi	新會	Su	S		San Wui
朱　則	Chue Chaak	台山	Ju		1, 2	San Wui
朱志汲	Chue Chi Kap	新會	Fr	S		Canton
朱藉福	Chue Tsik Fuk	台山	Su		2	Hongkong
朱壽恒	Chue Shau Hang, Miss	新會	Su	S		Canton
朱有光	Chue Yau Kwong	,,	Se		1, 2	Canton
鍾漢英	Chung Hon Ying	海豐	Su	S	1, 2	Haifung
鍾金鐸	Chung Kam Tok	新會	Su		1, 2	Hongkong
馮萬玉	Fung Leung Yuk, Miss	南海	So		1, 2	Hongkong
馮成功	Fung Shing Kung	,,	Fr		1, 2	Canton
馮兆偉	Fung Shiu Wai	,,	Su		2	Canton
格禮羅	Griggs, Eleanor, Miss		Sp		1, 2	Canton
何學敏	Hoh Hok Man	番禺	Fr		1, 2	Sha Wan
何鴻錦	Hoh Hung Kam	香山	So		1, 2	Siu Lam
何鑑明	Hoh Kaam Ming	東莞	Su		1, 2	Honam
何連貴	Hoh Lin Kwai	香山	Fr	S,	1, 2	Hongkong
何世光	Hoh Shai Kwong	番禺	So	S,	1, 2	Canton
何繩祖	Hoh Shing Tso	順德	Su		1, 2	Macao
何澍昌	Hoh Shue Cheung	南海	Ju		1, 2	Naam Hoi
何蔭棠	Hoh Yam Tong	順德	Se	S,	1, 2	Canton
何玉瑛	Hoh Yuk Ying, Miss	惠州	So		1, 2	Canton
韓洪洲	Hon Hung Chau	漳州	Sp		1, 2	Malang, Java, D. E. I.
洪高煌	Hung Ko Wong	潮安	Su	S,	1, 2	Chiu On
葉志榮	Ip Chi Wing, Miss	東莞	So		1, 2	Canton
葉　根	Ip Kan	鶴山	Fr		1, 2	Fatshan
葉瓦才	Ip Leung Tsoi	梅縣	So		1, 2	Bankok, Siam
葉大本	Ip Taai Poon	鶴山	Fr		1, 2	Hongkong
葉　梯	Ip Tai	,,	Fr		1, 2	Fatshan
葉贊鏘	Ip Tsaan Piu	博羅	Fr		1, 2	Canton
饒世勳	Iu Shai Fan	曲江	Fr		1, 2	Macao
簡任千	Kaan Yam Tsin	新會	Fr		1, 2	San Wui
甘懷傑	Kam Waai Kit	寧明	Fr		1, 2	Ling Ming Yuen, Sai
高爲素	Ko Wai So, Miss	番禺	Su	S		Canton
江耀彰	Kong Iu Cheung	寶安	Se	S,	1, 2	Hongkong
江貴華	Kong Kwai Wa, Miss	,,	Su	S		Canton
草野心平	Kusano, S.		Fr		1	Tokyo, Japan
關寶贇	Kwaan Po Chaan	南海	Su	S,	1	Canton
關添安	Kwaan Tim On	,,	Su	S,	1, 2	Honam
關詒葉	Kwaan Yi Suen	順德	Su	S,	1, 2	Hongkong
郭昌圖	Kwok Cheung To	南海	Su	S		Canton
郭超文	Kwok Chiu Man	香山	Su		1	Macao
郭堯金	Kwok Iu Kam	番禺	Fr		1	Fati, Canton
郭駟來	Kwok Sz Loi	南海	Su	S		Hongkong
郭棣活	Kwok Tai Woot	香山	Fr		1, 2	Heung Shan
鄺金良	Kwong Kam Leung	台山	Su	S,	1	San Francisco, Cal., U.S.A
鄺美蘭	Kwong Mei Laan, Miss	,,	Su		1, 2	Honam
黎蔭祥	Lai Yam Tseung	梅縣	Su		1	Canton
林植生	Lam Chik Shang	新會	Su	S,	1, 2	Hongkong
林史光	Lam Shi Kwong	,,	So		2	San Wui
林瑞傑	Lam Sui Kit	揭陽	Fr		1, 2	Kityang City
林遂恩	Lam Sui Yan, Miss	新會	So		1, 2	Hongkong
林遂意	Lam Sui Yi, Miss	,,	Ju	S,	1, 2	Hongkong
林子湘	Lam Tsz Seung	,,	Su		1, 2	Menado, Celebes

林溢泉	Lam Yat Chuen	番禺	Fr		1	Canton
劉振英	Lau Chan Ying	香山	Se		1, 2	Heung Shan
劉國銓	Lau Kwok Shuen	開平	So		1, 2	Honam
劉滿光	Lau Moon Kwong	香山	Fr	S,	1, 2	Heung Shan
劉樹柏	Lau Shue Paak	台山	So	S,	1, 2	Honam
劉　增	Lau Tsang	新會	Su		1, 2	Canton
劉青黎	Lau Tsing Lai	晉江	Su		1, 2	Formosa
劉毓瑜	Lau Yuk Yue	台山	Su		1, 2	Sumatra
李卓波	Lei Cheuk Poh	香山	Fr		1	Heung Shan
李耀燊	Lei Iu San	東莞	Se		1, 2	Macao
李連枝	Lei Lin Chi	香山	Fr		1, 2	Heung Shan
李文同	Lei Man Tung	,,	Su		1, 2	Heung Shan
李柏昊	Lei Paak Ho	大埔	Fr		1, 2	Swatow
李寶同	Lei Po Tung	香山	So		1, 2	Heung Shan
李　新	Lei San	台山	Fr	S,	1, 2	Toi Shan
李錫超	Lei Sik Chiu	,,	Ju		1	Hongkong
李雪鴻	Lei Suet Hung, Miss	番禺	So		1, 2	Canton
李　棠	Lei Tong	台山	Ju		1, 2	Canton
李蕙馨	Lei Wai Hing, Miss	新會	Ju		1, 2	Fatshan
李任龍	Lei Yam Lung	惠陽	Fr	S,	1, 2	Wai Yeung
李揚安	Lei Yeung On	台山	Ju		1, 2	Hongkong
李苑生	Lei Yuen Shang	香山	So		1, 2	Hongkong
李元傑	Lei Yuen Tsaan	,,	Fr		1, 2	Hongkong
梁震東	Leung Chan Tung	東莞	Sp		2	Canton
梁仲英	Leung Chung Ying	番禺	So		1, 2	Hongkong
梁其華	Leung Kei Wa, Miss	惠州	Su		1	Canton
梁其偉	Leung Kei Wai	惠陽	Su		2	Canton
梁廣林	Leung Kwong Lam	新會	Su		1, 2	Hongkong
梁孟齊	Leung Maang Tsai	,,	So		1, 2	Canton
梁樹勳	Leung Shue Fan	香山	Sp		1	Weltevreden, Java
梁瑞泰	Leung Sui Taai	南海	Su	S	2	Yokohama, Japan
梁思成	Leung Sz Shing	開平	Su		1, 2	Hongkong
梁宰光	Leung Tsoi Kwong	尋甸	Fr		1, 2	Sunchowfu, Sai
廖奉景	Liu Fung King, Miss	番禺	So		1, 2	Canton
廖奉靈	Liu Fung Ling, Miss	,,	Ju		1, 2	Canton
廖烈進	Liu Lit Tsun	陽	Su	S,	1, 2	Chiu Cheung
廖夢醒	Liu Mung Sing, Miss	州	Su		1	Hongkong
廖作	Liu Tsok San	台山	Se	S,	1, 2	Canton
盧觀偉	Lo Koon Wai	香山	Ju		1, 2	Canton
盧季卿	Lo Kwai Hing, Miss	東莞	Su	S		Canton
盧德輿	Lo Tak Yue	新會	Fr		1, 2	San Wui
羅啓祥	Loh Kai Tseung	順	Su		1, 2	Swatow
羅廣霖	Loh Kwong Lam	新會	Su		1, 2	Singapore
羅思雲	Loh Sz Wan, Miss	川	Su		1	Canton
羅 祥	Loh Tsok Tseung	南海	So		2	Honam
羅懷堅	Loh Waai Kin	番禺	Se		1, 2	Canton
羅和平	Loh Woh Ping, Miss	開平	So		1, 2	Honam
羅欽成	Loh Yam Shing	惠陽	Su	S,	1, 2	Siam
駱麟潤	Lok Lun Naam	惠州	Su		1, 2	Liverpool, England
雷香濤	Lui Heung To	台山	Su	S,	1, 2	Canton
雷鴻鈞	Lui Hung Kwan	,,	Su		1, 2	Hongkong

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雷文亮	Lui Man Leung	台山	Fr	1, 2	Canton	
陸振興	Luk Chan Hing	南海	Sp	1	Singapore	
馬熾熏	Ma Chi Huen	台山	Fr	1, 2	Kowloon	
馬顯榮	Ma H a Wing	香山	Fr	1, 2	Hongkong	
麥應基	Maak Ying Kei	南海	Se	1, 2	Canton	
梅雪影	Mui Suet Ying, Miss	台山	Su S,	1, 2	Canton	
吳賢壽	Ng In Shau	瓊崖	Sp	1, 2	Kiungchow	
吳求哲	Ng Kau Tsit	開平	Ju S		Honam	
伍啓勝	Ng Kai Shing	梅縣	Fr	2	Hongkong	
吳景奇	Ng King Kei	南海	Se	1, 2	Fatshan	
伍聯德	Ng Luen Tak	台山	Su	1, 2	Canton	
伍伯勝	Ng Paak Shing	,,	Fr	1, 2	Canton	
吳保光	Ng Po Kwong	東莞	Su S,	2	Sidney, Australia	
吳兆鏗	Ng Shiu Hang	南海	So S,	1, 2	Honam	
吳樹南	Ng Shue Naam	開平	Su	1, 2	Honam	
伍永高	Ng Wing Ko	台山	Su	1, 2	Toi Shan	
伍壬濠	Ng Yam Tak	,,	Su	1, 2	Toi Shan	
柯天斧	Oh Tin Foo	福建	Fr S		Sumatra	
潘其烋	Poon Kei Yeung	南海	Su S		Canton	
賴　福	Refo, Henry B.		Sp	, 2	Canton	
岑作猷	Sham Tsok Yau	南海	Su	1, 2	Hongkong	
施榮祥	Shi Wing Cheung	潮安	Su S		Canton	
冼玉清	Sin Yuk Tsing, Miss	南海	So S,	1, 2	Macao	
蘇崇禮	So Chung Lai	潮陽	Fr	1	Swatow	
孫毅夫	Suen Ngai Foo	香山	Fr	1	Heung Shan	
孫少嫻	Suen Shiu Haan, Miss	,,	Fr	1, 2	Heung Shan	
司徒寬	Sz-to Foon	開平	Se	1, 2	Hoi Ping	
司徒喬	Sz-to Kiu	,,	Fr	1, 2	Hoi Ping	
司徒清	Sz-to Tsing, Miss	,,	Su S		Canton	
戴惠瓊	Taai Wai King, Miss	歸善	Se	1, 2	Canton	
譚金好	Taam Kam Ho, Miss	台山	Sp	2	Butte, Montana, U. S. A.	
譚覺士	Taam Kok Sz	開平	Sp	1, 2	Calcutta, India	
譚德信	Taam Tak Sun	,,	Su	2	Hongkong	
譚毓均	Taam Yuk Kwan	台山	Su	2	Toi Shan	
鄧以岸	Tang Yi Kan	三水	Fr S,	1, 2	Canton	
杜樹桐	To Shue Tung	南海	Fr S		Canton	
湯澤光	Tong Chaak Kwong	新會	Ju	1, 2	San Wui	
湯澄波	Tong Ching Poh	花縣	So	1	San Kaai, Tung	
唐鴻基	Tong Hung Kei	香山	Fr	1	Hongkong	
湯壽頤	Tong Shau Yi	新會	So	1, 2	Canton	
唐兆獅	Tong Shiu Sz	香山	Su	1, 2	Heung Shan	
唐天惠	Tong Tin Wai	,,	Sp	1	Honolulu, H. I.	
唐逸馨	Tong Yat Hing, Miss	,,	Ju	1, 2	Hongkong	
湯郁文	Tong Yuk Man	新會	Su	1, 2	Canton	
曾昭森	Tsang Chiu Sham	番禺	Se S,	1, 2	Canton	
曾神賜	Tsang Shan Tsz	台山	Sp	2	Canton	
曾恩濤	Tsang Yan To	高明	Ju	1	Canton	
謝樹邦	Tse Shue Pong	東莞	Fr S		Shek Lung	
謝天錫	Tse Tin Sik	開平	Ju	1, 2	Hoi Ping	
左雪顏	Tsoh Suet Ngaan, Miss	南海	Fr	2	Canton	

左達明	Tsoh Taat Ming	南海	Fr	1, 2	Canton	
徐耀貞	Tsui Iu Ching	惠陽	Sp S		Canton	
徐家錫	Tsui Ka Sik	南海	Su S		Canton	
徐家鈺	Tsui Ka Yuk	,,	Su S,		Canton	
徐鏡洲	Tsui King Chau	台山	Su	1, 2	Hongkong	
徐鏡波	Tsui King Poh	,,	Su	1, 2	Hongkong	
董朗常	Tung Long Sheung	番禺	Su S,	1, 2	Canton	
韋澤生	Wai Chaak Shang	香山	So S		Hongkong	
韋鴻章	Wai Hung Cheung	奉議	Fr	1, 2	Fung Yi	
韋瑞生	Wai Sui Shang	香山	Fr	1, 2	Hongkong	
黃澤容	Wong Chaak Yung	台山	Su	1, 2	Toi Shan	
黃振道	Wong Chan To, Miss	番禺	Su S,	1, 2	Canton	
黃顯利	Wong Hin Lei	台山	Su S,	1, 2	Oakland, Cal.	
黃家田	Wong Ka Tin	厦門	Sp	1	Tegal, Java	
黃繼祥	Wong Kai Tseung	香山	Su	2	Heung Shan	
黃晚成	Wong Maan Shing, Miss	番禺	So	1, 2	Honam	
黃葡生	Wong Po Shang	連縣	So	1, 2	Canton	
黃秀平	Wong Sau Ping, Miss	清遠	Fr	1, 2	Canton	
王愾初	Wong Shan Choh	番禺	Fr S		Honam	
王愾謙	Wong Shan Him	,,	Ju S,	1, 2	Honam	
汪大德	Wong Tai Tak	香山	Su	2	Canton	
汪德晋	Wong Tak Chun	番禺	Su	2	Canton	
黃翠鳳	Wong Tsui Fung, Miss	台山	Ju	1, 2	Canton	
黃榮韶	Wong Wing Chiu	南海	Ju	1, 2	Canton	
黃榮舉	Wong Wing Kui	開平	Su	1, 2	Tungshan, Canton	
黃仁讓	Wong Yan Yeung	南海	Ju	1	Canton	
黃凝鏗	Wong Ying Hang	,,	Su	1, 2	Canton	
黃汝衡	Wong Yue Hang	香山	Fr	1, 2	Heung Shan	
黃汝奇	Wong Yue Kei	,,	Fr	1, 2	Heung Shan	
丘蘭秀	Yau Laan Shan	梅縣	Ju	1, 2	Miu Yuen	
丘玉麟	Yau Yuk Lun	潮州	Fr	1, 2	Chiu On	
楊景澤	Yeung King Chaak	番禺	Su	1, 2	Canton	
楊觀成	Yeung Koon Shing	香山	Su	1, 2	Hongkong	
楊國華	Yeung Kwok Wa	三水	Sp	2	Canton	
楊華日	Yeung Wa Yat	香山	Fr	1, 2	Macao	
楊月亭	Yeung Yuet Ting	潮安	Su	1, 2	Swatow	
楊玉濂	Yeung Yuk Lim, Miss	番禺	Fr	1, 2	Canton	
余岸圃	Yue Kan Po	台山	So	1, 2	Toi Shan	
余貴美	Yue Kwai Mei, Miss	,,	So	1, 2	Canton	
余葆生	Yue Po Shang	,,	Fr	2	Canton	
余郁民	Yue Sun Man	,,	Su	1, 2	Canton	
容啓榮	Yung Kai Wing	香山	Su	1, 2	Hongkong	
容冠威	Yung Koon Wai	,,	Fr S		Canton	

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College of Agriculture

歐陽祖岸	Au-yeung Tso Kan	新會	Su	1	Canton
陳桂生	Chan Kwai Shang	梅縣	Fr	1, 2	Mui Yuen
鄭鳳桐	Cheng Fung Tung	東莞	Fr	1, 2	Canton
何雄壽	Hoh Hung To	香山	Fr	1, 2	Siulam
何同銓	Hoh Tung Kwan	,,	Sp	1, 2	Siulam
何汝桐	Hoh Yu Tung	南海	Ju	1	Canton
甘汝登	Kam Yue Tang	鶴江	Fr	1, 2	Yeung Kong
江熙年	Kong Hui Nin	花縣	So	2	Shanghai
關存英	Kwaan Chuen Ying	番禺	Sp	2	Canton
藍驊堂	Lan Sing Tong	花縣	Fr	2	Fa Yuen
李仲和	Lei Chung Wo	蒙化	Sp	2	Mongwha, Yunnan
李浠傑	Lei Hi Kit	番禺	Fr	1, 2	Hankow
李德銓	Lei Tak Chuen	台山	So	1, 2	Kongmoon
李偉才	Lei Wai Tsoi	,,	Su	1, 2	Hongkong
李汝偉	Lei Yue Wai	新會	Fr	1, 2	Fatshan
羅當聖	Loh Tong Sing	開平	Fr	1, 2	Hoi Ping
明鑵五	Ming Iu Ng	雲南	Su	1, 2	Yunnan Province
梅植生	Mui Chik Shang	台山	So	1, 2	Canton
吳顯照	Ng Hin Chiu	新安	Fr	1, 2	Honolulu, T. H.
伍啓聲	Ng Kai Shing	梅縣	Fr	1	Hongkong
柯天斧	Oh Tin Foo	福建	Fr	1, 2	Sumatra
彭國瑞	Pang Kwok Sui	潮安	Fr	1, 2	Chaochowfu
譚景舜	Tam King Shun	台山	Fr	2	Toi Shan
杜樹材	To Shue Tsoi	南海	Se	1, 2	Canton
杜樹桐	To Shue Tung	,,	Fr	1, 2	Canton
湯　源	Tong Edward Lim	台山	Fr	2	Toi Shan
唐鴻基	Tong Hung Kei	香山	Fr	2	Hongkong
唐耀祖	Tong Iu Tso	恩平	So	1, 2	Hongkong
唐　進	Tong Tsun	吳江	Fr	1, 2	Wukong, Kiangsu
謝樹邦	Tse Shue Pong	東莞	So	1, 2	Shek Lung
章澤生	Wai Chaak Shang	香山	So	1, 2	Hongkong
溫耀文	Wan Iu Man	肇慶	So	1, 2	Wuchow, Sai
黃耀瓦	Wong Iu Leung	東莞	So	2	Canton
黃友祥	Wong Yu Cheung	嘉戎	Fr	1, 2	Kaying
英以權	Ying Yi Kuen	新會	So	1, 2	Singapore
余覺芸	Yue Kok Wan	台山	So	2	Canton
容秉衡	Yung Ping Hung	香山	Ju	1, 2	Heungshan

One Year Course in Agriculture

程葆元	Ching Po Yuen	香山	1, 2	Heungshan
何兆麟	Hoh Shiu Lun	番禺	1, 2	Canton
郭佩玉	Kwok Pui Yuk	,,	2	Hongkong
李觀洪	Lei Koon Hung	赤溪	1, 2	Kuala Lumpur
梁錦堂	Leung Kam Tong	新會	2	Hongkong
盧金炎	Lo Kam Im	番禺	1, 2	Hongkong
駱伯衡	Lok Paak Hang	花縣	1	Canton
馬傑恩	Ma Tsaan Yan	高要	1, 2	Canton
莫朝英	Mok Chiu Ying	新會	2	San Wui
曹雲漢	Tso Wan Hon	番禺	1, 2	Canton
徐家錫	Tsui Ka Sik	南海	1	Canton
徐家鈺	Tsui Ka Yuk	,,	1	Canton
徐孟莊	Tsui Maang Chong	番禺	1, 2	Canton

SUMMARY

	College of Arts and Sciences			College of Agriculture	Total
Collegiate	Men	Women	Total	Men	
Seniors	12	1	13	1	14
Juniors	17	6	23	2	25
Sophomores	19	12	31	10	41
Freshmen	63	4	67	18	85
Specials	7	2	9	3	12
(Total)	(118)	(25)	(143)	(34)	(177)
Sub-Collegiate					
Sub-freshmen	70	14	84	3	87
Specials	9	0	9	0	9
Short Course	0	0	0	13	13
Total	197	39	236	50	286
Duplications*	8	0	8	1	9
Net Total	189	39	228	49	277

*Seven College of Arts and Sciences students (one Sophomore, three Freshmen and three Sub-freshmen) transferred after the Summer Session and another (a Freshman) transferred after the First Semester to the College of Agriculture, and one College of Agriculture student (a Freshman) transferred to the College of Arts and Sciences after the first semester. The last figures give the final registration in each College and the number of individuals registered in the two Colleges.

Special Publications of the College

BULLETINS ISSUED BY THE COLLEGE*

Bulletin No. 5. GROFF, G. W., Agricultural Reciprocity between America and China. Illustrated. 40 pp. $0.20.

Bulletin No. 12. GROFF, G. W., The Papaya for South China. Illustrated. 7 pp. $0.10.
Chinese edition under title 瓜木. 8 pp. $0.10.

Bulletin No. 15. Some Educational Problems in China. 20 pp. $0.20.

Bulletin No. 18. LEVINE, C. O. and CADBURY, W.W., A study of Milk Produced in Kwangtung. 9 pp. $0.10.

Bulletin No. 20. The 1917-18 Journal of the Lingnaam Agricultural Society (in Chinese). 150 pp. $0.20.

Bulletin No. 22. CADBURY, W. W., The 1918 Pandemic of Influenza in Canton, China. 20 pp. $0.10.

Bulletin No. 23. LEVINE C. O., Notes on Farm Animals and Animal Industries in China. Illustrated. 45 pp. $0.40.

Bulletin No. 25. GRAYBILL, H. B., Lawn Grasses for South China 6 cuts, 6 pp. $0.20.

Bulletin No. 27. LEVINE, C. O., Butchering and Curing Meats in China. 9 cuts, 41 pages. $0.20.

Bulletin No. 28. WONG H., KEYS, J. N., GRAYBILL, H. B., and MACDONALD, W. E., How to Study. $0.20.

Bulletin No. 29. GRIGGS, J. C., Efficient Speech. $0.30.

Agricultural Bulletin No. 4. FUNKHOUSER, W.L., A Garden Guide for South China. 7 pages. $0.40.

* A list of the general publications, catalogues, etc., descriptive of the Canton Christian College is given elsewhere in this catalogue, on page 21.

CANTON CHRISTIAN COLLEGE SERIES OF TEXTS.

IN ENGLISH

BERGSTRESSER, C.A., Essentials of Arthmetic, Book I. Canton, 1909, College Bookstore. *Out of Print.*

GRAYBILL, H.B., Every-day English. Book I and Book II. Shanghai, 1910, Commercial Press, Ltd. Book I, $0.40; Book II. $0.30.

GRAYBILL, H.B., Teacher's Manual for Every-Day English Books I & II. Canton, 1912, Commercial Press, Ltd. $0.30.

BERGSTRESSER, C.A., and WICKS, C. H., Essentials of Arthmetic, Book II. Canton, 1912, College Bookstore. *Out of Print.*

DUNCAN, K., Essentials of Economics. Shanghai, 1914, Commercial Press, Ltd. $2.80.

BERGSTRESSER, C.A., Essentials of Arthmetic, revised by Y. T. Chiu and W. E. MacDonald. Canton, 1917, College Bookstore. $2.50. *Out of Print.*

DUNCAN, K., Exercises in Elementary Economics. Canton, 1918, College Bookstore. $1.50.

GRAYBILL, H.B., Mastery of English Books I, II, III, IV. Shanghai, 1919-1922, Edward Evans & Sons, Ltd. Book I, $0.50; Book II, $1.00; Book III, $1.25; Book IV, $1.35.

GROFF, G. W., The Lychee and Lungan. Canton, 1921, Canton Christian College. 60 Illustrations. $5.00.

BARROW, J.V., Good Manners. Shanghai, 1922, Edward Evans and Sons, Ltd. $0.60 or $0.75.

HOWARD, C.W., The Sericulture Industry of South China. New York, 1922, Canton Christian College. 8 illustrations. $1.00.

IN CHINESE

FUSON C.G., Primary Geography. 2 vol. Shanghai, 1913, Commercial Press, Ltd. $0.25 each.

WONG, K.M., Arithmetic for Higher Elementary Schools. 4 vol. Shanghai, 1913, Commercial Press. $0.25 each.

FUSON, C.G., Geography of Kwangtung. Canton, 1918, College Bookstore. $0.25.

KAM NAAI KWONG, Economic Exercises, Canton, 1922, Privately printed. $0.30.

Any of the publications listed above can be secured, unless out of print, by ordering from the College Bookstore, Honglok, Canton, China.

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COLLEGIATE MISSIONS

in the

CANTON CHRISTIAN COLLEGE

The Pennsylvania State College Mission to China — 1907
George Weidman Groff, M.S. (Pennsylvania State)

The Foreign Work of the Christian Association of the University of Pennsylvania — 1909
William W. Cadbury, M.A. (Haverford), M.D. (Pennsylvania)
Internal Medicine

he Teachers College of Columbia University Foundation for a Professorship of Education in China — 1914
H. B. Graybill, B. A. (Washington and Lee), M. A. and Diploma (Teachers College, Columbia)
Education

The Foreign Work of the Christian Association of the University of Pittsburgh — 1915
Henry Sorg Frank, B. Chem., M. S. (Pittsburgh)
Physics

The Kansas State Agricultural College Mission to China — 1916
Carl Oscar Levine, B.S., M.S. (Kansas State)
Animal Husbandry

The Washington and Lee University Mission to China — 1919

CO-OPERATING
with the
CANTON CHRISTIAN COLLEGE

The London Missionary Society — 1915
Supporting Rev. Alexander Baxter

The Wesleyan Methodist Missionary Society — 1922
Supporting Rev. Ronald Rees, M.A.

ACADEMIC CALENDAR

1923-24

SUMMER SESSION

		1923		
Registration, and Entrance Examinations, 8:00 A.M.	Thurs.	June	28
Summer Session opens, 7:00 P.M.	Fri.	June	29
Summer Session closes, 1:00 P.M.	Wed.	Aug.	1

FIRST SEMESTER

Entrance Examinations begin, in Hongkong and Canton, 8:30 A.M.	Tues.	Sept.	4
Fees paid at the Bank,	Fri.	Sept.	7
Semester opens, 7:00 P.M.	Fri.	Sept.	7
Holiday, Independence Day,	Wed.	Oct.	10
Holiday, Field Day,	Thurs.	Nov.	29
Holiday, Christmas Day,	Tues.	Dec.	25
		1924	
Holiday, New Year's Day,	Tues.	Jan.	1
Semester closes, 1:00 P.M.	Fri.	Feb.	1

SECOND SEMESTER

Entrance Examinations begin, in Hongkong and Canton, 8:30 A.M.	Tues.	Feb.	12
Fees paid at the Bank,	Fri.	Feb.	15
Semester opens, 6:30 P.M.	Fri.	Feb.	15
Arbor Day			
Holiday, Class and Founders' Day,			
Alumni Day,	Mon.	June	23
Commencement Exercises, 11:00 A.M.	Tues.	June	24

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Canton Christian College

BULLETIN No. 35

CATALOGUE

OF

The Overseas-Chinese School

CANTON, CHINA

JUNE 1923

PRINTED BY THE COLLEGE PRESS

廣州嶺南大學印刷所刊

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Canton Christian College

BULLETIN No. 35

CATALOGUE

OF

The Overseas-Chinese School

CANTON, CHINA

JUNE 1923

PRINTED BY THE COLLEGE PRESS

廣州嶺南大學印刷所刊

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CANTON CHRISTIAN COLLEGE

Officers of Administration:

President	Charles K. Edmunds
Vice-Presidents	W. K. Chung
	James M. Henry
Executive Secretary	Katharine C. Griggs

Faculty of the Overseas-Chinese School:

Principal	Lam Iu Cheung
Vice-Principal	Maak Ying Kei
Matron	Wan King Wai, Mrs.
Commandant	Yue Shun Man

Other faculty members:

Chia Kuo Hsiang
Ho Shou Yun
Liu Min Hsuan
Tsu Hsiu An
Wong Chim
Wong Shun Him
Wong Wing Chiu
Wong Yue Hang

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Canton Christian College

BULLETIN No. 35

CATALOGUE

OF

The Overseas-Chinese School

CANTON, CHINA

JUNE 1923

PRINTED BY THE COLLEGE PRESS

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Location.

The Canton Christian College is situated in a suburb of Canton, the metropolis of Kwangtung Province. It has a campus of about three hundred acres in the open country, and controls about a quarter mile of river front. Most of the buildings are on elevated land from forty to seventy feet above the river, which affords beautiful views in all directions. There are fifty-three permanent buildings of brick and reinforced concrete, as well as many structures of less substantial character.

The Overseas-Chinese School is located on the southern campus of the College. The building it now occupies is a gift of the Chang family in memory of Chang Pat Sz, its head. This building is one of the largest, best ventilated and best equipped buildings on the campus.

Object.

In recent years many Chinese residents abroad have been anxious to send their children to this institution for further education. These children, with few exceptions, are handicapped either in English or in Chinese, and are therefore often turned away for not being up to standard. With the idea of preparing such students adequately to meet the requirements for entrance into the regular classes of the Canton Christian College, the Overseas-Chinese School was organized in 1919.

Courses of Study.

The subjects of study in this school are chiefly Chinese English and arithemtic, with some history and geography. For those who are ready to take more advanced subjects, arrangements will be made to enable them to take the same in the Middle School or in the College. Students entering this school and passing in their examinations ought, in most cases, to be well prepared to become regular students of the Canton Christian College in from half a year to two years.

Discipline.

All the students are required to live on the campus and are under the same discipline and management as the regular students of the Canton Christian College. The younger ones will be under the special care of the matron.

Age Limits

Applicants for admission as students to this school must not be under twelve nor over eighteen years of age. Those who are over eighteen should not come unless their previous training in other subjects can qualify them to take up college work or that of the last two years of the Middle School directly. For such students it would be more advisable to register either in the College or in the Middle School. Special arrangements may be made for them to take Chinese or other subjects in which they are handicapped in this school.

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School Year

The school year is divided into two semesters, the first beginning about the first of September, the second beginning about the first of February of the following year. Students who come late require special permission of the head of the school concerned in order to enter.

Students from the South Sea Islands or places where the climate is hot throughout the year, are especially advised to come in the summer months, June and July if possible, and not in the winter. They will find it much easier in this way to adapt themselves to the climate.

Vacation

Summer vacation is about ten weeks; winter vacation about two. Ordinarily students are required to go home during vacation; but those who cannot go home on account of distance will be well taken care of by properly qualified persons. There is a summer school in connection with the College in which students may study during part of the summer vacation, if the parents so desire. Board, room rent, etc. must be paid for by the students. School will not be in session on Sundays, but students may not leave the campus without proper permission.

Tuition and other Fees

The total fees for the academic year in the Primary School are about $272-$280; in the Middle School about $292-$300; in the College the fee is dependent on the number of courses the student takes but usually it amounts to about the same as that paid by the students in the Middle School. These fees include tuition, quarters, board, etc. However, as the students in the Overseas School come from all over the world, their previous training, environment, customs, and habits of life are so very different that they require much special teaching, care, and supervision. This means that we have to have a much larger staff to run this school than that of any regular school of the same number of students. Besides this they have their special furniture, equipment, and grounds. Because of such special teaching, care, equipment, and supervision involved, the students of the Overseas-Chinese School will be charged an extra fee of $40 a semester.

The College Bank will receive deposits for students which may be drawn in small amounts. Clothing, books, etc. may be bought upon arrival at Canton. The College encourages frugality in the use of money. It is therefore not only advisable but strongly urged that the parents have all the students' money deposited in the College Bank and entrust the supervision and regulation of expenses of the student to the teacher who is specially appointed for the work so that unnecessary spending will be prevented. A detailed account will be sent to the parents or guardians at the close of the term.

ESTIMATES OF ANNUAL EXPENSES FOR STUDENTS IN THE OVERSEAS CHINESE SCHOOL

GRADE	COLLEGE PREPARATORY CLASS AND MIDDLE SCHOOL		HIGHER PRIMARY	
	1ST. TERM	2ND. TERM	1ST. TERM	2ND. TERM
Tuition & Special Teaching	140.00	100.00	130.00	90.00
Quarters	25.00	25.00	25.00	25.00
Board	33.00	33.00	33.00	33.00
Laundry	6.00	6.00	6.00	6.00
Student Ass'n	3.00	for College Preparatory Class		
	2.00		2.00	2.00
Clothing etc.	50.00-70.00		30.00-40.00	
Books etc.	20.00-30.00		15.00-20.00	
Pocket Money and Miscellaneous	60.00-80.00		40.00-50.00	
Total	502.00-552.00		437.00-462.00	

Laboratory Fee (only for College Students) $5.00-20.00 per year.

The above is only a rough estimate of what the average student will need in a year. In case of new students who need extra clothing made and other necessary things furnished as well as expenses incurred from sickness, observation trips, and other emergencies which cannot be estimated, separate bills will be sent at the time needed.

A student who is late in paying fees or enrolling or in taking up residence, is liable for a delinquency fee of $2 each day, with a maximum total of $20 unless otherwise arranged with the Bursar.

Summer Session: For students who stay or are required to stay for the Summer session the following fees will be charged:

Tuition $20.00; Quarters, Board, Laundry, etc. $15.00; Special teaching $8.00 Total $43.00

Any student who stays in the college during vacations will be charged as follows:

1. Quarters $3. per student per week (Fraction of a week is counted as a week).
2. Board $2. per student per week.

For all new students the following additional fees will be charged:

Registration fee	$1.00
Emergency Guarantee fee*	100.00
Uniform fee	25.00

All fees are to be paid in Hong Kong currency.

*Emergency Guarantee Deposit: Formerly the guarantee deposit for students of this school was the same as for those of other schools. However, during the past few years there have been many cases of delayed payments of fees by the Overseas students. There were also some students who had to leave school, burdening the College with paying for their passage. To guard against such emergencies, it is necessary for the College to charge all new Overseas students after August 1, 1923 $100. Hongkong for Emergency Deposit instead of $10 as heretofore. This deposit will be refunded to the student upon his leaving the school, provided no necessary deductions have to be made for breaking school furniture or property. The guarantee for old students will be dealt with individually by the Bursar directly.

Entering the Overseas Chinese School

In addition to filling the regular blanks provided for the students in the College, each applicant, if possible, must obtain the endorsement of a member of the local committee of the Overseas Chinese School.*

*A list of the names of the committee in Chinese will be found elsewhere in this catalogue.

Refund of Fees

1. The guarantee deposit will not be refunded if the student is to continue his study at the end of the vacation. If, however, he intends to discontinue at the close of the term, he should either get back his guarantee deposit before leaving, or else he should inform the principal of the school ten days before the opening of the new term, so as to enable the school to give his vacant place to another new student. Failure to notify the proper authority before that time limit will mean forfeiture of one-tenth of the guarantee deposit.

2. The registration, athletic, special examination, and delinquency fees will not be refunded in any case.

3. Only the guarantee deposit will be refunded in case of expulsion from school.

4. In case of suspension for breaking rules all funds during the time of suspension will be considered forfeited.

5. In case of a student's being asked to leave school on account of inability to study, the unused portion of the following fees: tuition, quarters, board, laundry, special teaching, will be refunded. Excepting for board which is counted by the week (fraction of a week counted as a week) all other fees are charged by the month.

6. In case of students leaving voluntarily (that is without having been permitted by the school authority), only the guarantee deposit will be refunded. If there is any breakage of school property or furniture, a due amount will be deducted from the guarantee deposit in payment for the breakage.

Students Organizations.

Our College has often been called "The Man Factory". To live up to this good name the college tries to give the students as many opportunities as possible for the development of their character and the training of their abilities so that when thay go out into the world they will be ready to take up any duty with credit. Only a brief statement can be given of the several important organizations.

The Overseas-Chinese School Students Association.

This Association was organized last year and is run by the students, under the guidance of an advisor appointed by the Principal. The Association aims for the four-fold development of the members, namely: the attaining of character, the pursuance of knowledge, the promotion of health and better physique, and the fostering of better friendship. Under able leadership such organizations will be of great help to the school in the discipline and good order of the school in general.

Student Christian Association

The Student Christian Association provides students with facilities for voluntary religious activities and for training in social service. Swasey Hall, the gift of Mr. Ambrose Swasey of Cleveland, is a well-equipped center for such purposes. Religious meetings and study classes for students are held regularly under the direction of committees. The students, sometimes assisted by the members of the College faculty, conduct meetings for the servants on the College campus and for villagers. The Association also has organized under its educational department day and night schools for servants and villagers. The social department provides students and community with entertainments. Reading and game rooms are also maintained in Swasey Hall. The Association publishes a weekly paper in Chinese and a fortnightly newsletter in English.

Overseas-Chinese School Boys' Club.

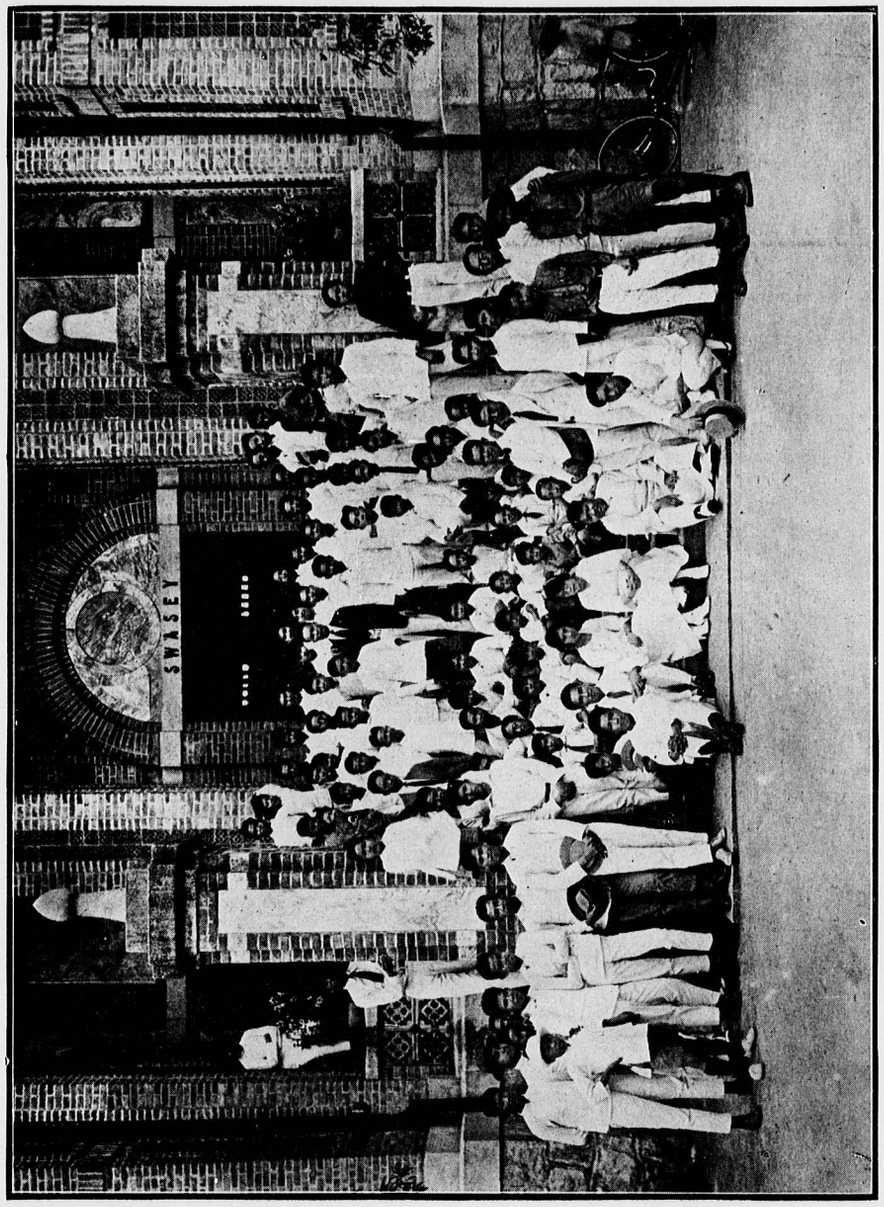
This Club is under the management of the Boys' Department of the Student Christian Association. The aim of this Club is to help the boys make profitable use of the unoccupied minutes. Besides guiding them in the reading of good, healthy, and interesting books, they are also taught many useful things such as photography, and drawing. Indoor and outdoor games, and trips are also included in their programs so they often have close contact with Mother Nature.

Military Drill

With the exception of the smaller boys who are permitted to join the Boy Scout Troop, all the students are required to take military drill. A teacher appointed by the school has full charge of the matters relating to the organization and discipline of all the cadet students. To help him carry out his many duties he may appoint as many students as he thinks necessary to be lower officers.

Scouting

The Boy Scout Troop was organized in the year 1915. It is the Second Troop of the Canton Branch, Boy Scouts of China. The good position of our college gives many advantages for outdoor exercises, camping and other outdoor activities which are so necessary to the life of a Boy Scout.



（人餘十七百二生僑有共大南全）部一生學僑華大南
A GROUP OF OVERSEAS STUDENTS AT C. C. C. 1922-23



ENTIRE STAFF AND STUDENT BODY, OVERSEAS CHINESE SCHOOL
1921-22

Publications

The College has issued a few text-books in English and in Chinese and issues special bulletins upon scientific subjects. A list of these is given elsewhere in this catalogue.

(南風) Naam Fung, also in Chinese, is a publication of a literary nature carried on by the students. The subscription price is $1.00 per year.

(南大青年) The Student Christian Association issues a weekly news sheet in Chinese which gives current information as to what is going on at the school. The subscription price for the weekly is $1.80 per year.

The Daily Meteorological Record, a bulletin issued quarterly, gives a record of the meteorological observations made each day at the Freeman Meteorological Observatory, together with monthly summaries.

The College of Agriculture issues a monthly agricultural extension circular in Chinese, an agricultural quarterly in Chinese and a semi-annual agricultural review in English.

The following bulletins and leaflets are issued to give information about the school, and may be obtained by writing to the head of the school concerned. The leaflets are free; the charge for the bulletins is ten cents, except to patrons of the school.

Name	Character
Calendar	Chinese leaflets on dates, fees, entrance, etc.
Catalogue of College of Arts and Sciences, and of Agriculture	English bulletin on courses, regulations, etc.
Catalogue of College of Agriculture	Chinese bulletin on courses, regulations, etc.
Middle School Catalogue	Chinese bulletin on courses, regulations, etc.
Overseas Chinese School Catalogue	Chinese and English bulletin on fees, regulations, etc.
Elementary School	Chinese leaflet on courses, fees, etc.
Summer Session	Chinese leaflet on courses, fees, etc.
"Taai Koon" (大觀)	Chinese bulletin, illustrated for contributors.
"Canton Christian College"	English booklet, illustrated, Price $1.80

崩南大學華僑學校一覽

民國十二年五月発

布告第三十五號

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嶺南大學

總職員

監督　晏文士

副監督　鍾榮光

秘書長　香雅各

格禮女士

華僑學校職教員

校長　林耀翔

副校長　麥應基

校母　温景蕙

監學　余邨民

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劉明宣　麥應基

崔岫菴　王潛

王愼謙　黃榮詔

黃汝衡　海賢士

書記　何國華

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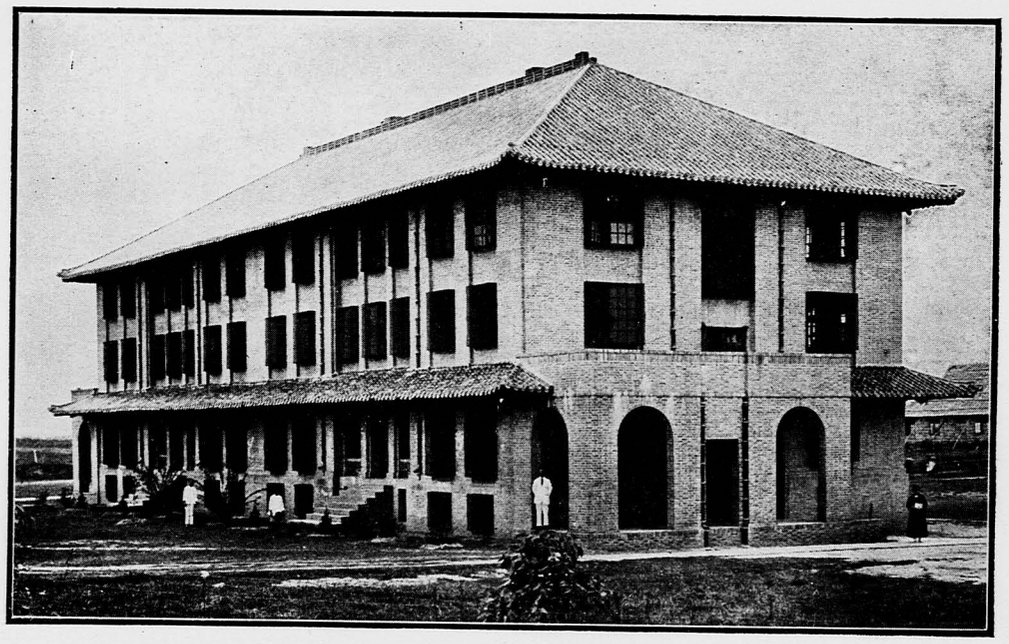
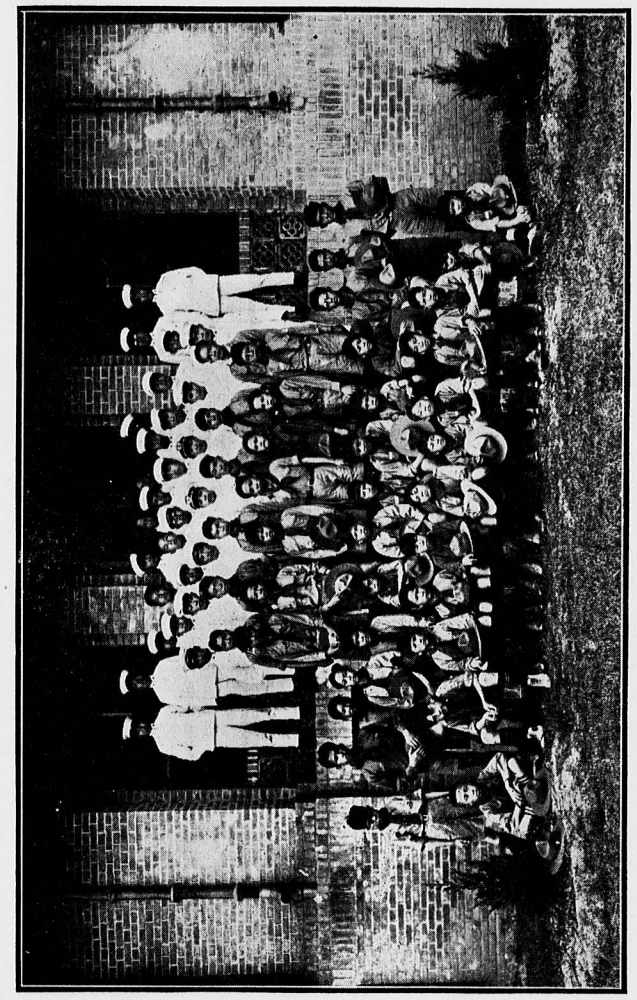


華僑學校　張弼士堂
CHANG HALL



民國十二年華僑學校全體學生
STUDENTS BODY, OVERSEAS CHINESE SCHOOL
1922-23

華僑學校一覽目錄

本校沿革史

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附本校董事芳名住址一覽表　南大出版

嶺南大學附設華僑學校歷史

民國成立海外僑胞資遣子弟返國入嶺南就學者與年俱增唯因語言殊異程度參差每致不能收錄職教員等大爲不安屢擬設補習學校以圖救濟民國七年晏文士鍾榮光兩先生旅行南洋備受各界僑胞歡迎幷對於華僑教育多有商榷簡君英甫南洋巨商也担任由星架坡發起爲華僑學校募捐旋蒙張秩栩先生認捐校舍建築費七萬元請于其令堂張朱潤芝夫人慨表贊同因以此爲其令先人張弼士先生之紀念同時鍾先生奔走安南暹羅日里各地幷蒙僑胞踴躍贊成相繼倣助華僑學校因之而成立民國七八年間本校萌牙伊始僑生來學者二十餘人校內各事暫由中學校長葛理佩先生兼理所有各種設施均附麗於中學至十年暑假後星洲養正校長林耀翔先生被請歸來接理其事一切組織設備與夫管理教授訓練種種漸臻妥善卽游戲一門已增設足球場二籃球場二網球場二幷增設舍監等職去年復聘女教員一人担任本校校姆年幼各生提携有賴雖慈幃遙遞亦不至有游子天涯之感林校長爲嶺南十年前大學預備生復畢業於美國哥林比亞教育科得學士位回國先後曾兩任嶺南分校校長民國七年星洲養正學校借材本大學林先生因往任校長三年半此次歸來竟有該校學生三十餘人隨來嶺南分入大中小學及本僑校誠一時之盛也本校宿舍結構精良惟房舍不多現已住至八十餘人已有人滿之慮非從速增建校舍力求擴充恐無以副僑胞之望此事正在籌畫中有心華僑教育者願有以垂教焉

嶺南大學華僑學校一覽

第一章　辦法概要

（一）校址　本僑校設在嶺南大學之內、建築得宜、房室通爽。距廣州市東南十里、中隔一河、半時可到。全嶺南校地千餘畝。住居教員家眷學生工役人等共千餘人、內有西人六十餘人、華人一千二百餘人、自成一村。自來水電話均有設備。常保地方治安、風氣清潔。

（二）目的　近年華僑子弟歸國就學、多到嶺南大學。考試及格、當然收錄、依照級數上學。但其中或因中文或因西文及科學不及格、以致不能入校者不少。本大學應各埠華僑之要求設立此校、預備未及格者、入校補習、務求得入中學或大學爲目的。

（三）教授　中文歷史地理用國語教授、另有英文算術格致等科。每遇學期之末、考試及格、卽升入中學或大學。間有因一科欠缺、致不能升學、本校亦委曲相就、特聘教員、或專精該科之大學生施以相當之個人教授。

（四）管理　除校長教員監學管理外、學生偶有疾病、則歸校醫護理。年幼學生平時更有校母提携。此外更派定教員一位、爲每班之顧問、使有各種疑難問題、各生可商承於各該顧問。事無鉅細、凡有益於學生者、該顧問無不樂於匡助。校長與監學、

爲管理全體學生之總機關。對於學生個人、亦樂與接洽。

（五）教員會　此會之設合全僑校教員組織而成。除特別召集會議外、至少每六禮拜內開常會一次、以謀本校進行事宜。

（六）年歲　凡生長及家僑海外者、自十二歲至十八歲之學生、無論程度深淺、儘可收錄。未及十二歲者、可由本校介紹入省港嶺南各分校。但必稍識中國文字、且遇有空額、乃能收容。已過十八歲者、則必有預備入大學之程度、乃可到校。本校對於未足十二歲、及已過十八歲之僑生、甚望其先將年齡學歷寄來本校、待校長分別定奪、收容與否、方可起程前來。

（七）學期　每年分兩學期。秋季始業、約在九月初旬起爲第一學期二月初旬起爲第二學期。各生最好依期到校。如因事必不能依時、須先函知本校校長、得其答允、乃可前來。各僑生最好在每年陽曆六月底到校、七月入夏令館。

（八）假期　暑假約十禮拜、寒假約兩禮拜、學校通例、凡遇假期學生一律離校。惟僑生家居海外、往返不易、假期內除在夏令館補習一月外、或由管理員帶往別處旅行、或父兄有不願其子弟離校者、預先來函、當能照辦、惟食宿費另計

（九）入學　來學各生、請開列年歲、原籍某省某縣、現居某埠、曾在某校畢業、或未畢業、父兄姓名職業、及通信處。就近請本僑校董事寫信保送。（董事姓名住址詳載本書之末）其他衣服器用、待到廣州購置、以廉儉足用爲度。若於未到廣州之先、電知本僑校、某時由某船到香港或直到廣州、本僑校接到消息定必派人接待。

（十）學生每年經費預算

一　學費　華僑生程度參差、習尚不同、言語各別、教授管理比之尋常學校、加倍困難、故所聘職教員、亦比其他同等人數學校爲多。此外如特別教授管理及設備、亦較他校爲善、故每學期多收學費四十員。（僑生預備入何級、照該級收費、另加四十元）。茲將各級學費開列於下。

預備小學三百元。　預備大學及中學三百七十二至三百五十二至三百六十元。其每年各項費用預算、另表列明。

二　每學期之始、各生須將本期學費交納清楚、方能上課。（各費須用港紙交納、）遲至開學後或每大加收遲繳費弍元、加至二十元爲止。如有特別情由、不能依期交納者、可直接與度支部長面商。

三　新生入校時、須另納掛號費壹元、制服費二十五元。

四　意外按金　本校向章、華僑生按金、亦一律祇收拾元。惟年來僑生中、時有延遲數月、不交學費者。或因事須即離校、川資亦須由校墊出者。種種原因、致本校辦事上多生困難。茲爲預防此種意外起見。本校行政部議決、自民國十

二年八月一號以後來校各華僑新生、均須繳意外按金壹百元。（港幣）舊生應繳此款與否、由司庫酌奪。將來如無意外發生、則該生離校時、此款可照數交還。如有損壞校內傢私物業、則由此款內照價扣還。

五　學生年輕無處置金錢之能力。各學生父兄、有欲限制其予弟用度、幷防其失漏者、可將款項存本校內銀行。本校特委派顧問教員專代學生管理散費幷負節制之責、必由該教員簽字乃得提支。所有零碎數目隨時列表佈告。

六　中途入學者、除膳費、洗衣費、補習費外、餘均照表收足。

校別	學期	修金及補習費	堂舍費	膳費	洗衣費	學生會費	衣服鞋襪費	紙筆書籍費	本人零用	每年總數
大學預科及中學一二三年級	第一學期	百四十元	二十五元	三十三元	六元	預科三元二元	全年五十元至全年二十元	全年二十元至全年六十元	全年十五元至全年四十元	五百零二元至四百廿七元
	第二學期	一百元	二十五元	三十三元	六元	元	元至七十元	元至三十元	元至八十元	五百五十二元
高等小學	第一學期	一百卅元	二十五元	三十三元	六元	元	元全年三十元	全年十五元	全年四十元	四百廿七元至四百六十二元
	第二學期	九十元	二十五元	三十三元	六元	元	元至四十元	元至二十元	元至五十元	

以上所列皆經常之費。至於入校之日、應置服裝用具、另有單開。在校或有疾病旅行及意外之事、不能預算。

本校生如讀夏令館者、則須繳交下列各費。

修金二十員　堂舍膳費及洗衣等費十五員　補習費八員　總共四十三員

凡學生於假期內在校寄宿者、不論其屬何校須照下列之款交納。

一　堂舍費每星期三員、若不足一星期之久、亦作一星期計算。

二　膳費每星期弍員壹毫、每餐壹毫。

（十一）學費退回辦法

一　放假後學生仍欲繼續肄業者、請勿將按金取去。如決意自行退學、必須在開學前十日報知、或即於其時取去按金、俾本校得將該學額收錄新生。如不於十日前通知、則照章將按金罰扣十元。

二　凡報冊費體育費特別試驗費、及過期交款多收之費、概不退回。

三　學生若犯校規、因而革退者、獨可取回按金。

四　學生若犯校規、因而罰令停學者、於停學期內、　學費、均作爲收沒品。

五　學生有非犯校規、獨以修學能力有缺、而爲本校勸令退學者。所餘之修金、堂舍費、膳費、及洗衣費、俱得退回。惟在校期內所用去者、則必須扣出。除膳費

以星期計外餘均以月計。

六　學生若自行退學、亦獨可取回按金。至有損壞校具、則須由按金內如數扣出、以作賠償。

（十二）獎　賞

下列獎品、經教員會議定後、學年終時、分別獎賞。

品學獎　學年終時、品學最優者得獎。

國文獎　學生對於國文成績最優者得獎。

英文獎　學生對於英文成績最優者得獎。

算術獎　學生對於算術成績最優者得獎。

聖經獎　學生對於聖經最有心得者得獎。

童子警探獎　學生對於童子軍最能用心研究、及熱心服務者得獎。

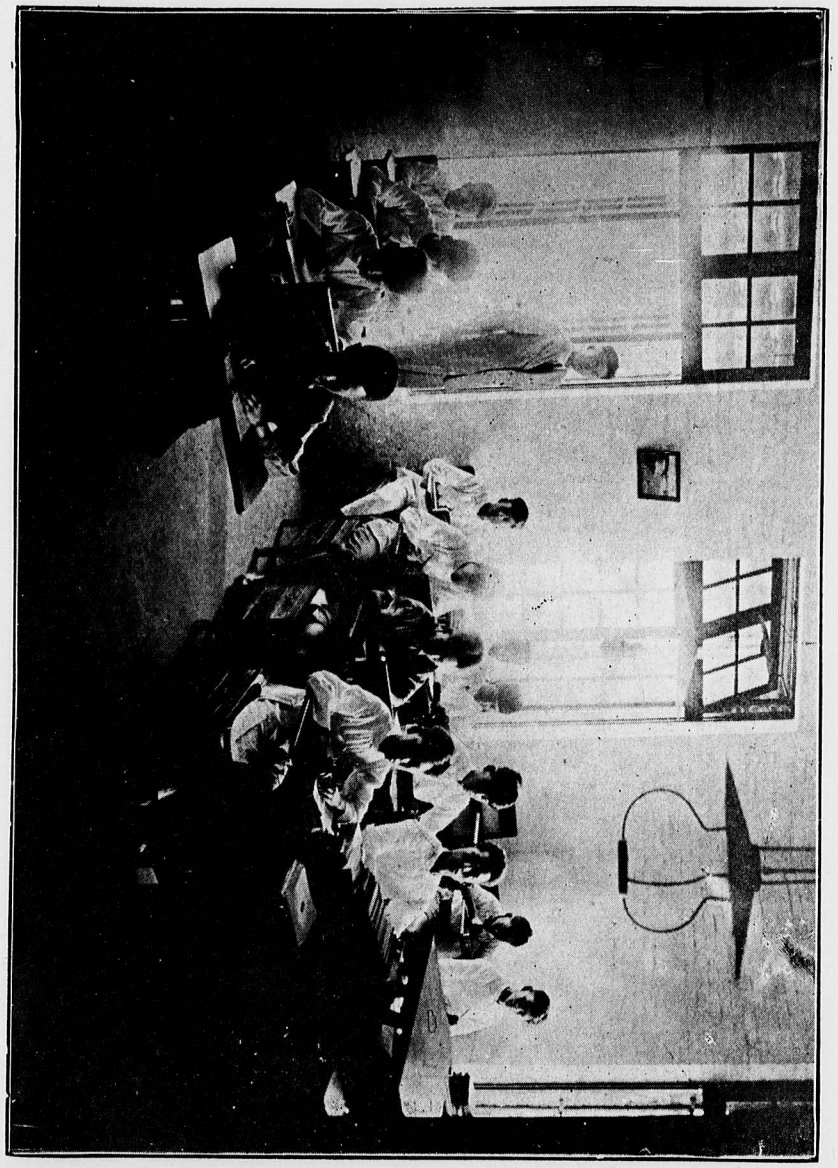
陸軍團獎　學生體操練習最純熟者得獎。

體育獎　體育最發達者得獎。

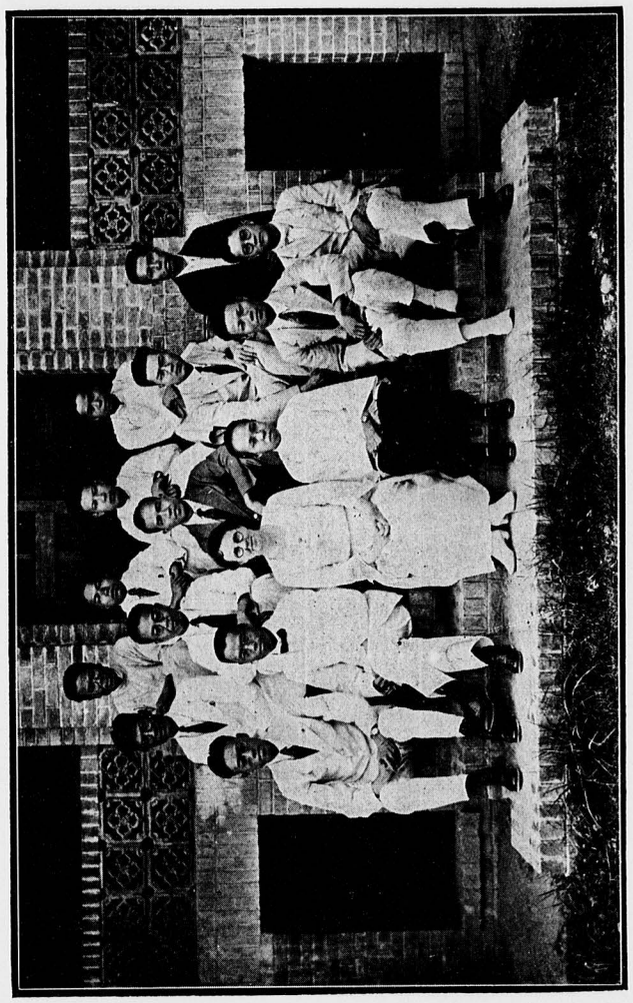
各班品行獎　學年終時每級中、品行最優者得獎。

第二章　規　則

（一）普通規則



（文中）課堂 CLASS ROOM



民國十二年華僑學校全體教職員
1922-23 ENTIRE STAFF OVERSEAS CHINESE SCHOOL

一　誠實爲立身之基礎。故本校以不誠實爲萬惡之源、列爲首戒。若有犯此等行爲者、事無論大小、必以嚴格處罰、或致斥退。

二　凡在校學生、有不愛護母校之行爲。及有訕謗足引動其他學生發生惡感者。或以不道德行爲誘惑他人者。一經查覺、即勸令出校。

三　學生無論在何時、不得違抗教員命令、或無禮對待教員。違者由該教員商之監學、嚴行處罰。

四　無論何時、一聞號令、應即歸隊、不得遲到。

正　體操及檢查時、須穿指定之制服。

六　每日佈告宣讀後、凡有名在佈告之內者、須在指定之時間、往見監學、將理由陳明。

七　犯規不直認者、是爲不誠實、以犯首誡論。

八　服務時必須盡職、不得苟且了事。

九　毀壞校內一切物業者、必須即到司庫處聲明。並賠償損失。若匿而不報、認爲有不誠實之行爲。

十　學生不得在南北閘口、及碼頭附近一帶地方、購買食物。

十一　學生不得任意拋擲菓皮、字紙、等廢物、於校內任何地面上。

十二　學生不得到工人住所內。
十三　學生非經監學許可者、不得入附近村落。
十四　學生有疾病、或事故不能上課、體操、或運動者、須先向校醫、校姆、或監學處告假。
十五　學生每月例可請假過省一次。其准假與否由監學酌定。
十六　無論何種聚集、或巡行慶祝等事、必先得校長允許、方可舉行。若爲例會、則在學期之始、先將一學期內指定每次之時間、得校長允許方可。
十七　賭博者嚴罰、或罰令退學。
十八　吃烟飲酒者嚴罰。再犯斥退。
十九　學生在上課或在自修堂、或服務時、雖有人到訪、均不得出堂、或放棄職守。
二十　閱不貞潔及有損道德之書畫者重罰、再犯斥退。
廿一　貴重裝飾品、及凶器、如短槍、風槍等、幸勿攜帶來校、以杜覬倖、而保安全。
廿二　如無負責人（經本校建築部長認可者）同行、各生不得在校內外騎馬。

（二）教室規則

一　上堂不准遲到。
二　上堂時間內須絕對服從教員命令。
三　教員未到堂時、須先自行溫習、不得喧嘩。
四　教員上堂時、學生須起立致敬。下堂時、必俟教員先退乃退。
五　教授時間、除所教之書外、不得看及他書及報紙。
六　教員介紹來賓參觀時、應卽起立致敬。

（三）宿舍規則

一　天明聞號與寢。就寢時、一律熄燈。熄燈後、不許談話。
二　不得在宿舍內食物、及貯藏食品。礮頭、及原罐封固者、不在此例。
三　在宿舍內及附近不得作損壞校舍之運動、（如打球等）及有碍他人之喧擾。
四　不得放存衣服在浴室內。
五　睡房如無原住人在內、別房學生不可擅入。否則失物多疑、入者難免審訊。
六　床上除被褥外、不准放置別物。
七　床下除鞋、屐外、不准放置別物。
八　睡房內牀、櫃、書案等、非經監學許可者、不得任意搬遷移動。

（四）膳堂規則

一　各生必須衣服齊整、方能到膳堂用膳。
二　學生不准擅入厨房。
三　學生不得在膳堂內喧嘩、呼喝厨役、及作怪異之聲音。
四　學生不准賒賬。
五　學生不得於非用膳時間、借端到膳堂騷擾。

（五）安息日規則

一　各生在安息日不得喧嘩。
二　必須到禮堂聚集及主日學班。
三　聚集時必須肅靜。
四　每生必備聖詩一本。
五　安息日停止游戲。
六　入教與否絕對自由。

（六）考試規則

一　考試時不得受助於人、亦不得帮助別人。所有抄襲、夾帶、傳觀、種種不正行爲、在所嚴禁。
二　初次發覺有不誠實者、必將該科全數積分扣除。再犯者重罰或斥退。
三　考試時除紙筆外、不得將書籍等物、置在案上、以杜取巧。

（七）泅泳規則

一　各生非得特許、不得在泅泳池外泅水。
二　未經醫生驗明無傳染症者、不得在池內泅水。
三　不得作有妨礙池水清潔種種行爲。
四　非穿泅泳衣者、不得泅泳。
五　不在指定時間內不得泅泳。
六　年幼及未諳泅泳學生、如無體育主任派人同行、不得擅往泅泳、以免危險。
七　年長學生、而諳泅泳者、如無二人以上同往、不得泅泳。

（八）立會規則

一　凡學生欲設立團體、必須先得校長允許、乃將該團章程交校長核准、方爲有效。若有更改時、亦須隨時報明核准。若其事關係全校者、必須得監督之允許。
二　各團體進支數目、至學期終時、必須交本校核數員核妥。

（九）旅行規則

一　禮拜六日旅行、（由上午十一點至下午七點）由各班顧問與監學妥商、乃可出發。若在禮拜六日以外旅行、由顧問與校長監學商妥、然後舉行。

二　在旅行時期內、各生受顧問管理。有不服從命令者、無論個人或全班、學校可罰令停學。學生雖與顧問同時出發、及同時回校。非得顧問特別許可者、不得擅自他適。未出發時、由顧問點名、俾知同行者若干人、并有權隨時點名。

三　學生全體旅行之時、須穿本校制服（得監學允免者不在此例）學生回校後、須照常上學。并將旅行名單交于監學。

（十）醫藥

一　本校校醫、常川駐校、以便料理校內各教職員、及學生一切疾病。

二　每學期之始、新舊學生必須到校醫處查驗體格一次。若有傳染症及別種不正當之症、校醫有權令其離校。

三　若有疾病係普通醫生所不能奏效者、如剖解、眼疾、配鏡、及須另僱看護等、學校或學生監理人、願意令其在校調理、本校醫亦樂於代勞。惟醫費另議。

四　如遇病症緊急時、校醫有特權料理、不必先得該生父兄主意、然後着手。恐一失時機、或致有誤生命也。

（十一）捐欵

未得本校監督允許、無論各種大小捐欵、不能在校內勸捐。各班班費、載在班會章程、已得校長允許者、不在此例。

各班班費、不得過五角之數。如過此數、必須得校長之特許。

（十二）罰則

違犯上列各規則、輕者由監學或教員或校長處罰。重者則由教員會議決施行。

（十三）規則修改

以上所訂規則、倘有未臻完善者、本校有權隨時修改。但到時、必另行公佈。

第三章　學生團體

來學諸生、不祇得受學科上之教育、而且課餘有暇、兼得種種服務實習、爲他日出而任事社會之準備。茲將校內重要團體、節錄如下。

（一）華僑學校學生會

我國爲民主政體、國民應具民治精神。去年本校學生、組織華僑學校學生會、以發展其自治精神、練習其辦事能力。該會職員、全由學生選舉。其顧問則由校長委派、任指導之責。該會章程一經校長允許、即可施行。

南大華僑學校學生會章程（暫行）

第一章

（一）定名　本會定名爲「南大華僑學校學生會」

（二）宗旨　本會以促進四育團結友誼爲宗旨

(三)會所　本會會所設南大華僑學校內

第二章　會員

(四)凡本校華僑學生均爲本會會員

(五)會員有選舉及被選權

(六)有享受本會規定之權利

(七)會員應遵守本會會章及規則

(八)會員須納基本金經常費及特別費

(九)互相規勸輔助

(十)担任施行會務

第三章　職員及權責

(十一)本會組織設幹事五人內設主席一人由幹事輪任中西文牘員各一人司庫一人體育幹事一人膳堂糾察四人及膳堂代表一人

(一)幹事責任

甲　管理本會物業

乙　有權委任會員執行會務

(二)主席之責任

甲　有權召集幹事會議職員會議及全體會議

乙　對外代表本會

(三)文牘員及司庫責任

甲　中西文牘員分理本會一切文牘事宜

乙　司庫專管理本會財政徵收經費進支款項每月佈告財政狀況於大會

第四章　任期

(十二)職員以半年爲一任主席以一月爲期

第五章　選舉

(十三)本會職員概由會員選舉

(十四)選舉時期在暑假及冬假前二星期

(十五)所有職員不能兼職

(十六)所選之職員須得過半票數方爲有效

(遇不足票時以得票最多數二人復選)

第六章　會費

(十七)凡本會會員入會時須納基本金五毫及每月納會費一毫

(十八)本會有特別事故發生須集款項者由職員商准校長後得向會員徵收特別費惟須經大

會認可或追認

第七章　法定人數

(十九)所有會議須得過半數人以上出席方能決議

(二十)凡有議案須得過半出席人數之通過

(廿一)本會會章如有修改時須得會員二十以上提議三分二人贊成方能有效

(廿二)會員二十以上同意可要求主席召集大會

(廿三)會員如有不遵守會規者得由個人或職員提出大會處置

(廿四)凡開大會時遲到五分鐘以上者罰銀半毫不到者罰銀一毫(如有充足理由得主席許可者不在此例)

(二)青年會

青年會之設，原以扶助青年德育之長進，及服務之精神。學生入會與否，均聽其自由。會費亦自由認捐。該會事務，統由學生主理。近年會務，日形發達，服務村鄉，提倡平民教育，不遺餘力。半夜學校，(專爲校內男女工人而設)藝徒學校村鄉學校，已開辦而有成績者，有五六間。校內學生人格之造就，服務之練習，青年會與有力焉。

(三)小羊社

本校學生，來自基督教家庭者不少。本年二月間，曾聯同組織一社，取名小羊。逢星期日敘會一次。演講道德故事，與夫古今名人歷史，兼以歌詩。一方面可以培養其德性，一方面固結其友誼，使其身心交相受益。

(四)華僑童子部

華僑童子部，乃南大學生青年會事業之一。專爲本校幼年學生而設。利用各生課餘暇晷，或假期，介紹其多閱有益身心之書籍，作合宜之游戲。間或作旅行野營之舉，使與天然界接觸，養成其活潑之精神。

(五)陸軍團

本校學生，除年幼者可入童子警探隊之外，其餘年長各生，均編入陸軍團。該團司令由本校派一教員當之，名曰陸軍團司令，負全隊訓練之責。其餘軍官由該司令接委任學生充當。

(六)童子警探

本校童子警探，乃中華童子警探，廣州支部之第二旅也。其組織訓練，均照中華童子警探規律辦理。入隊時所應用器具，均須個人自備。本校枕山臨水，對於童子警探各種訓練，實占天然之優勢。

嶺南大學華僑學校董事芳名一覽

姓名	籍貫	職業	通訊處
林文慶	福建	醫生	廈門大學
廖正卿	潮州		星架坡四海通
林義順	潮州		星架坡美芝律五號
何仲英	大埔		星架坡小坡大馬路六二二號炳興
丘應篆	福建		堤岸義昌成米絞
郭紹智	潮州		堤岸通合號
劉禮庭	新會		堤岸南隆米行
葉伯行	香山		西貢法蘭西銀行
馬培生	台山		廣州河南洪德四巷十五號
伍佐南	梅縣		暹羅檳港馬宮後廣源隆
鍾寶川	台山		暹羅檳港嗐叻海旁五零三唔聚源船廠
陳秉堂	梅縣		暹羅檳角濟和堂
雲竹亭	文昌		暹羅檳角雲瑞和行
鄭大平			暹羅檳角桑越順福成
張化龍	梅縣	土產	日里棉蘭瑪腰官署轉交
張步青	梅縣	棉蘭中國領事	
黃錦培	福建	船務 洋貨	日里棉瑞瑞德美號或庇能長利公司
林國治	福建		蘇門荅臘亞沙漢培善學校
陳天教	海豐	大工頭	蘇門荅臘日里丹戎巫勞洼居利
黃捷雲	南海		蘇門荅臘火水山廣生隆
陶景華	南海	祥興司理	直明丁宜祥金舖
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