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LINGNAN UNIVERSITY CATALOGUE

1937 - 1938

Canton China

WESTERN LANGUAGES AND LITERATURE

Professors Baldwin Lee, Rhoads, and Aiken; Miss Banta, Mrs. Wallace, and Mr. Schlapfer.

The Department of Western Languages and Literature offers courses in the English, French, and German languages, and in Western literature.

In English, the Department offers the usual fundamental courses for freshmen and sophomores; and for students who enter below the freshman English standard, a special preparatory course is prescribed. Additional language courses in the field of phonetics, oral English, and advanced grammar are available to students in the sophomore class and above. For students who are majoring in English, and for others who have completed their required English courses in good standing. Upper Division English and Western literature courses are given.

The major offered by the Department is designated the Major in English. This affords a broad foundation for later specialization in English literature, while at the same time it gives specific preparation for middle school English teaching. Students electing the Major in English who are looking definitely toward teaching are expected to take the minor in Education. Others majoring in this field are advised to choose either Chinese or one of the social sciences as their minor.

The freshman program for students who plan to take the Major in English is given on page 50, in the program for Arts students. The program for later years follows:

Program for the Major in English

SEMESTER I	<u>Sophomore</u>	SEMESTER II	
Subjects	Credits	Subjects	Credits
Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
English 43	1	English 44	1
English 49a	4	English 49b	4
Psychology 21 (or Elective)	3	Education 21 (or Elective)	3
Approved elective	3	Approved elective	3
Physical Education	1/2	Physical Education	1/2
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	17 1/2		17 1/2
		<u>Junior</u>	
Major	9	Major	9
Minor	3	Minor	3
Approved electives	6	Approved electives	6
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	18		18
		<u>Senior</u>	
Major	9	Major	9
Minor	3	Minor	3
Thesis	2	Thesis	2
Elective	3	Elective	3
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	17		17

ENGLISH

1 a-b. FRESHMAN ENGLISH. Practical study of sentence and paragraph construction with regular written exercises. Special attention to typical errors in grammar and idiom. Reading of short stories, essays, and poems. Prescribed for all freshman. A special section selected on the basis of a placement examination will be formed to take care of those entering with a superior command of English.

Classroom 3 hours, laboratory 2 hours (4 credits): two semesters.

21 a-b. SOPHOMORE ENGLISH. Practice in the more common forms of written expression; extensive readings.

3 hours; two semesters.

41. DEBATE AND ORATORY. Practical work in the development and presentation of formal speeches. Special attention to debating, extemporaneous discussion, and parliamentary procedure.

Classroom 1 hour, laboratory 2 hours (2 credits): one semester.

43. PHONETICS. A thoroughly practical course in the production and representation of English speech sound, including (a) the physiological bases of speech, (b) fundamental phonetic principles, (c) systems of sound notation, (d) a study of similarities and variations between English and Chinese vocables, and (e) intensive drill in pronunciation.

2 hours (1 credit); one semester.

44. ORAL ENGLISH. A practical course for the improvement of oral English through practice in reading, recitation, conversation, and informal speeches.

2 hours (1 credit); one semester.

45. CLASSICAL MYTHOLOGY. Lectures on the various Greek and Roman deities, their attributes and their significance, and on the exploits of the chief heroes of Greek and Roman legend. Text and outside readings.

2 hours; one semester.

49 a-b. SURVEY OF ENGLISH LITERATURE. English literature from its beginnings studied mainly by direct readings in the light of its social and cultural background.

4 hours; two semesters.

51-52. ADVANCED COMPOSITION. A study of the several forms of discourse, with particular attention to advanced expository writing. Readings in the modern essay. Admission only by consent of the instructor.

3 hours; either or both semesters.

53. FUNDAMENTALS IN ENGLISH. An advanced course, treating the subject matter of formal English (including grammar, rhetoric, phonology, and punctuation) from the point of view of the needs of the specializing student and the prospective teacher of English.

3 hours; one semester.

55 a-b. RUSSIAN LITERATURE. A survey of Russian literature since Pushkin, with extensive reading in the field of fiction, drama, and poetry.

3 hours; one semester.

59. EIGHTEENTH CENTURY ENGLISH LITERATURE. A study of the literary movements and chief writers of the century, both in poetry and in prose.

3 hours; one semester.

60 a-b. SURVEY OF EUROPEAN LITERATURE. Representative writing in Greek, Latin, Romance, and Germanic languages studied in English translation, with a consideration of their influence on European history development.

3 hours; two semesters.

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61. THE CONTEMPORARY ENGLISH NOVEL. A survey of the more important British and American novels from the beginning of the century to the present time. Emphasis on the characteristic interests and the essential qualities of style of the individual authors.

3 hours; one semester.

62. CONTEMPORARY ENGLISH DRAMA. A survey of British and American drama from the beginning of the century to the present time. An intensive study of the plays of Galsworthy, Barrie, and Shaw, and reading of representative plays by other contemporary playwrights, English Irish, and American.

3 hours; one semester.

65. THE SHORT STORY. The content and technique of the short story, with particular reference to recent trends.

3 hours; one semester.

68 a-b. THE EIGHTEENTH AND NINETEENTH CENTURY NOVEL. A survey of the works of the more important English novelists from the time of Richardson to the beginning of the twentieth century. Lectures on social and literary background. Extensive reading.

3 hours; two semesters.

69. ENGLISH POETRY. Extensive reading of poetic masterpieces, exemplifying the different types of poetry and the characteristics of the greater poets of today and of the past.

3 hours; one semester.

70. CONTEMPORARY POETRY. A study of the trends in modern English poetry as exemplified in the work of contemporary British and American poets.

3 hours; one semester.

71. a-b. CONTEMPORARY DRAMA. Rapid reading of the chief dramatists of England, America, and the Continent, beginning with Ibsen.

3 hours; two semesters.

72. CONTEMPORARY EUROPEAN LITERATURE. A survey of the non-dramatic literature of the continent in the present time, with special reference to the novel.

3 hours; one semester.

73. EUROPEAN DRAMA. The drama from its origins in Greece down to the beginning of the eighteenth century.

3 hours; one semester.

74. EUROPEAN DRAMA. A continuation of 73, including the drama in Europe of the 18th and 19th centuries.

3 hours; one semester.

75. POEMS OF THE ROMANTIC MOVEMENT. A course designed to acquaint the student with representative work of the greatest period of English lyric poetry.

3 hours; one semester.

76. VICTORIAN POETRY. A study of the major poets of the period, with special attention to Tennyson and Browning.

3 hours; one semester.

79 a-b. LITERARY CRITICISM. A study of the principles of criticism, based upon extensive reading of critical literature in conjunction with original literary works.

3 hours; two semesters.

81. SHAKESPEARE. A study of some of the principal plays.
3 hours; one semester.
82. SHAKESPEARE. A continuation of 81. 3 hours, one semester.
83. DANTE: AN INTRODUCTION STUDY. An appreciation of mediaeval life and thought, and of Dante's expression of it in the Divine Comedy and other selected writings.
3 hours; one semester.
87. GOETHE: AN INTRODUCTORY STUDY. The reading of Goethe's chief novels and dramas against the background of his life and activities in other fields.
3 hours; one semester.
- 95 c. THE TEACHING OF ENGLISH. A special methods course in the teaching of Chinese students.
3 hours; one semester.
- 99 a-b. THESIS. Individual work under supervision on a selected problem in English (language, literature, or teaching). Required in their senior year of all students majoring in English.
2 hours; two semesters.

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廣州私立嶺南大學章程



Lingnan University

The Colleges

BULLETIN NO. 61

CATALOGUE

WITH ANNOUNCEMENTS FOR

1937-1938

CANTON, CHINA

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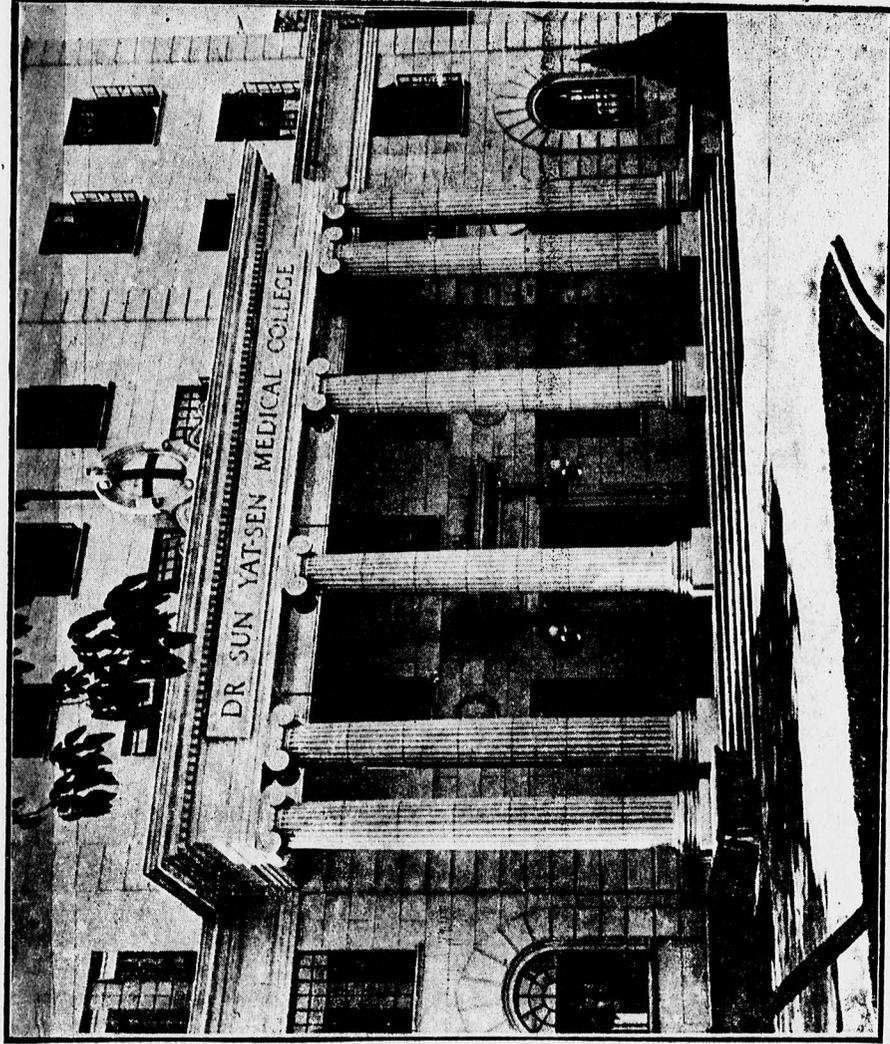
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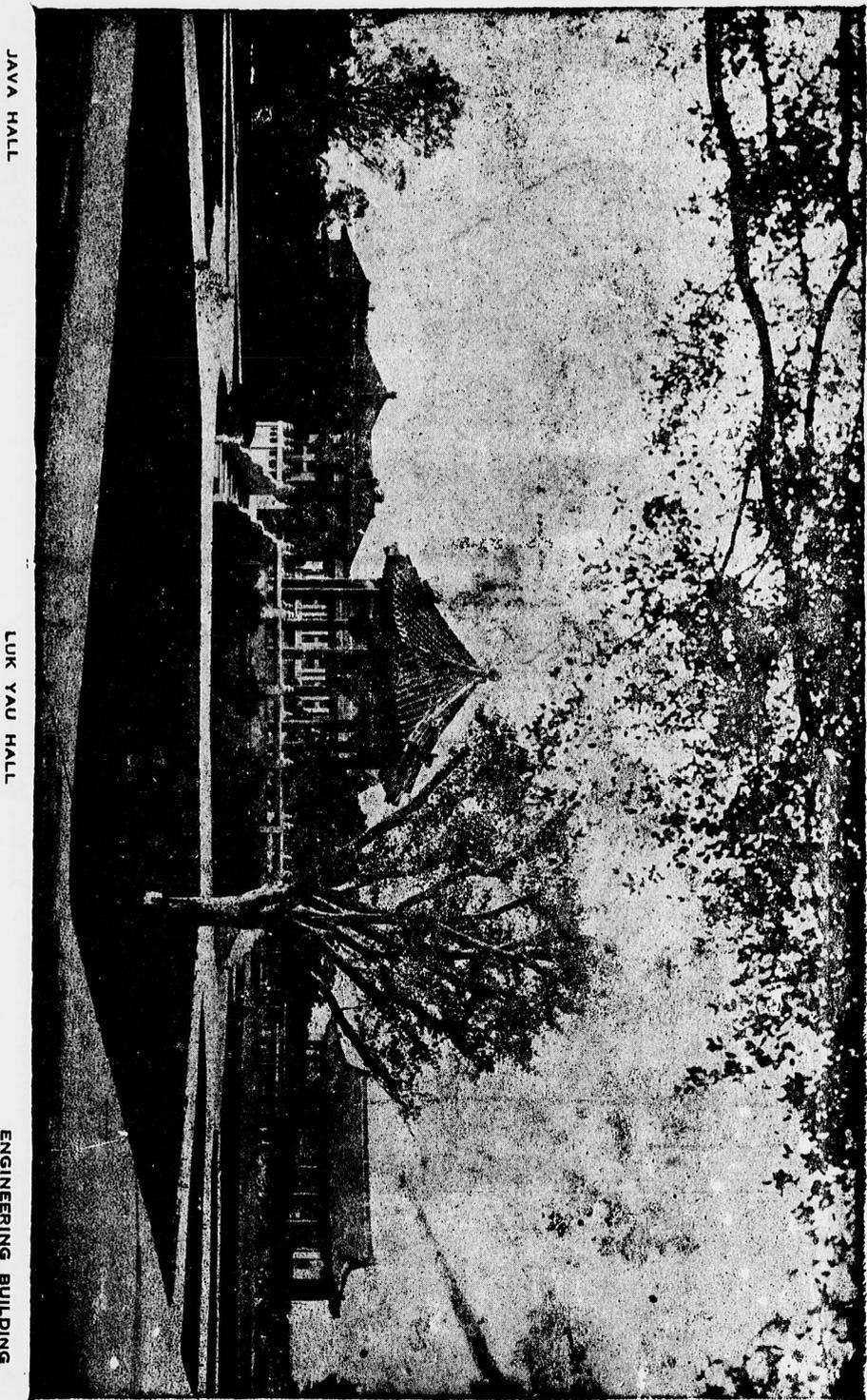


THE COLLEGE OF MEDICINE (DR. SUN YAT-SEN MEDICAL COLLEGE)

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Lingnan University

Bulletin No. 61

CATALOGUE

OF THE

COLLEGE OF ARTS AND SCIENCES

COLLEGE OF AGRICULTURE

COLLEGE OF ENGINEERING

AND

COLLEGE OF MEDICINE

WITH ANNOUNCEMENTS FOR THE

ACADEMIC YEAR 1937-38

CANTON, CHINA

JUNE, 1937

PRINTED BY UNIVERSAL PRINTING CORPORATION.

0009

OFFICERS OF ADMINISTRATION

鍾榮光	CHUNG WING-KWONG, CHU JEN, LL. D. Siu Tsai, Chinese Government Examination, 1884; Chu Jen, 1894; LL. D., St. John's University, 1929.	<i>President</i>
香雅各	JAMES MCCLURE HENRY, D. D. B. A., University of Wooster, 1901; D. D., <i>ibid.</i> , 1924; B. D., Union Theological Seminary, 1907.	<i>Provost</i>
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謝廷玉	HSIEH TING-YU (T. Y. CHAR), M. A. B. A., Yenching University, 1928; M. A., University of Hawaii, 1932; Graduate Study, Teachers' College, Columbia University, 1934-35.	<i>Registrar</i>
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戴惠瓊女士	W. K. TAI CHIK, B. D. B. A., Lingnan University, 1923; M. A., New York University, 1928; B. D., Union Seminary, 1931.	<i>Dean of Women (On Leave)</i>
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陳任才	CHAN YAM-CHOI St. Michael's Schools, North Borneo	<i>Bursar</i>
譚卓垣	TAAM CHEUK-WOON, Ph. D. B. A., Lingnan University 1922; B. L. S., Columbia University, 1931; Ph. D., University of Chicago, 1933.	<i>Librarian</i>
陳元覺	CHAN YUEN-KOK, M. D. Peiping Union Medical College, 1929	<i>Superintendent of Infirmary</i>

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洗玉清女士	SINN YUK-TSING, B. A. B. A., Lingnan University, 1925.	<i>Curator of the General Museum</i>
黃 雯	WONG MAN, M. A., M. B. B. A., Cambridge University, 1916; M. A., <i>ibid.</i> , 1920; M. B., <i>ibid.</i> , 1923; B. Ch. <i>ibid.</i> , 1921; L. R. C. P., London, 1919; M. R. C. S., England, 1919; D. T. M., England, 1920.	<i>Superintendent of Canton Hospital</i>
古桂芬	KOO KWAI-FAN, M. S. B. S., Lingnan University, 1922; M. S., University of California, 1924.	<i>Superintendent of Lingnan Agricultural Experimental Station at Wui Tung</i>

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古桂芬	KOO KWAI-FAN, M. S.	<i>Dean</i>
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College of Engineering

李權亨	LEI KUEN-HANG, C. E.	<i>Dean</i>
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College of Medicine

(Dr. Sun Yat-sen Medical College)

黃 雯	WONG MAN, M. A., M. B.	<i>Dean</i>
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陳文駐	CHAN MAN-CHUE, M. A. (On Leave)	<i>Middle School</i>
楊重光	YEUNG CHUNG-KWONG (Acting)	
麥應基	MAAK YING-KEI, B. A.	<i>Primary School</i>
邵堯年	SHIU IU-NIN (Acting)	<i>Sub-collegiate Agric. School</i>

OFFICE OF THE PROVOST

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洪 鈞	HUNG KWAN, B. A.	<i>Secretary</i>
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Faculty and Teaching Staff

1936-1937

Length of service with the institution is shown by the figures within the parentheses following the statement of each person's degrees.

- 魏乾女士 PAULINE AIKEN, Ph. D., *Assistant Professor of English Literature.*
B. A., University of Maine, 1927; M. A., *ibid.*, 1929; Ph. D., Yale University, 1934. (1935-)
- 包令留 HENRY CHASE BROWNELL, M. A., *Professor of History, Head of Dept. of Social Sciences.*
B. A., University of Vermont, 1908; Rhodes Scholar, Oxford University, 1910-13; B. A., *ibid.*, 1912; M. A., Harvard University, 1919 (1908-10; 1913-) (On Leave)
- 嘉惠霖 WILLIAM WARDER CADBURY, M. D., *Professor of Medicine, Head of Dept. of Internal Medicine.*
B. A., Haverford, 1898; M. A., *ibid.*, 1899; M. D., University of Pennsylvania, 1902; F. A. C. P., 1929; Sc. D., Haverford, 1936; Graduate Study in Vienna, 1905; Graduate, London School of Hygiene and Tropical Medicine, 1928. (1936-)
- 陳建宜 FRANK LAI-NGI CHAN, D. Sc., *Assistant Professor of Chemistry.*
B. S., University of Washington, 1929; M. S., *ibid.*, 1930; D. Sc., University of Michigan, 1932. (1933-) (On Leave)
- 陳心陶 CHEN HSIN-TAO, Ph. D., *Associate Professor of Biology, Head of Dept. of Biology.*
B. A., Fukien Christian University, 1925; M. S., University of Minnesota, 1929; Ph. D., Harvard University, 1931. (1926-28; 1931-)
- 趙蘇權 WILLIAM JUE POY, M. D., *Associate Professor of Anatomy.*
M. B., North Western University, 1929; M. D., *ibid.*, 1930. (1936-)
- 趙恩賜 CHIU YAN-TSZ, Ph. D., *Professor of Chemistry.*
B. S., University of California, 1913; M. A., Columbia University, 1915; Ph. D., Cornell University, 1927. (1915-)
- 曾朝明 FREDERIC CHEWMING CHANG, B. A., *Assistant Professor of Chemistry, Curator of the Department.*
B. A., Columbia University, 1927; Graduate Study, *ibid.*, 1927-1928. (1930-)
- 褚聖麟 CHU SHENG-LIN, Ph. D., *Assistant Professor of Physics.*
B. S., Hangchow Christian University, 1927; M. S., Yenching University, 1931; Ph. D., University of Chicago, 1935. (1931-33; 1935-)

- 朱志滄 CHU CHI-CHONG, M. S., *Assistant Professor of Animal Husbandry, Head of Dept. of Animal Industry.*
B. S., Lingnan University, 1929; M. S., Iowa State College, 1931. (1935-)
- 霍真 REO FRANKLIN FORTUNE, Ph. D., *Associate Professor of Anthropology.*
B. A., New Zealand University, 1924; Dip. Anthropology, Cambridge University, 1926; Ph. D., Columbia University, 1931. (1937-)
- 馮秉銓 FENG PING-CHUEN M. S., *Assistant Professor of Physics.*
B. S. Tsing Hua University, 1930; M. S., Yenching University, 1934. (1930-)
- 富倫 HENRY SORG FRANK, Ph. D., *Professor of Chemistry, Head of Dept. of Chemistry.*
B. S., University of Pittsburgh, 1922; M. S., *ibid.*, 1922; Ph. D., University of California, 1927. (1922-)
- 高魯甫 GEORGE WEIDMAN GROFF, M. S., *Professor of Horticulture.*
B. S., Pennsylvania State College, 1907; M. S., *ibid.*, 1918. (1907-)
- 賀輔民 WILLIAM EDWIN HOFFMANN, M. A., *Director of Lingnan Natural History Survey and Museum, Professor of Entomology.*
B. A., University of Kansas, 1918; M. A., University of Minnesota, 1924; Additional Graduate Study, *ibid.* (1924-30; 1931-)
- 何世光 HOH SHAI KWONG, B. A., *Assistant Professor of Chemistry.*
B. A., Lingnan University, 1926. (1926-)
- 何畏冷 HOH, WILLIAM, M. S., *Professor of Plant Pathology.*
B. S., University of Pennsylvania, 1921; M. S., Iowa State College, 1922. (1934-)
- 何永信 HOE YUNG-CHI, Ph. D., *Professor of Political Science.*
B. A., Tsing Hua University, 1924; M. A., Harvard University, 1927; Ph. D., *ibid.*, 1930; (1936-)
- 謝廷玉 HSIEH TING-YU, (T. Y. CHAR) M. A., *Registrar, Assistant Professor of Chinese Civilization.*
B. A., Yenching University, 1928; M. A., University of Hawaii, 1932; Graduate Study, Teachers' College, Columbia University, 1934-35. (1936-)
- 許道陽 HSU CHENG-YANG, (C. Y. HUI) Ph. D., *Dean of College of Arts and Sciences; Associate Professor of Physics, Director of Freeman Meteorological Observatory.*
B. A., University of Richmond, 1922; M. S., University of Chicago, 1923; Ph. D., Cornell University, 1933. (1927-31; 1933-)

- 徐錫齡 HSU HSI-LING, B. A., *Assistant Professor of Education*.
B. A., Lingnan University, 1927; Graduate Study, Yenching University, 1927-28; Research Fellow, Institute of Educational Research, Sun Yatsen University, 1928-1932. (1936-)
- 許剛頂 HSU KANG-LIANG, M. D., *Associate Professor of Pediatrics*.
B. A., St. John's University, 1920; M. D., *ibid.*, 1922; Graduate Study in U. S. A., 1927-1928. (1936-)
- 古察 J. Franklin Karcher, M. D., *Professor of Medicine*.
B. S., University of Pittsburg, 1917; M. D., University of Pittsburg, 1925 (1936-)
- 聶雅德 ARTHUR RUSSELL KNIPP, Ph. D., *Professor of Physics, Head of Dept. of Physics*.
B. A., Johns Hopkins University, 1907; B. S., Massachusetts Institute of Technology, 1909; Ph. D., Harvard University, 1926. (1909-15; 1917-)
- 古桂芬 KOO KWAI-FAN, M. S., *Dean, College of Agriculture; Associate Professor of Agronomy*.
B. S., Lingnan University, 1922; M. S., University of California, 1924. (1929-)
- 郭蔭棠 KWOK YAM-TONG, M. A., *Professor of Economics, Head of Dept. of Business Administration*.
B. S., Washington Square College, New York University, 1916; M. A., *ibid.*, 1917; Ph. M., 1918; F. R. E. S. (1929-)
- 孔憲保 KUNG HIN-PAO, Ph. D., *Assistant Professor of Chemistry*.
B.A., University of California, 1930; Ph. D., *ibid.*, 1933. (1933-)
- 梁敬敦 CLINTON NEVIUS LAIRD, M. A., *Professor of Chemistry*.
B.A., University of Pennsylvania, 1903; M. A., *ibid.*, 1905. (1905-)
- 李寶榮 BALDWIN LEE, Ph. D., *Professor of English, Head of Dept. of Western Language & Literature*.
B. A., Columbia University, 1921; M. A., *ibid.*, 1925; Ph. D., *ibid.*, 1923. (1931-)
- 李權亨 LEE KUEN-HANG, C. E., *Dean, College of Engineering; Professor of Engineering*.
C. E., Cornell University, 1913. (1930-)
- 李沛文 LEI PUIMAN, M. S., *Associate Professor of Horticulture, Head of Dept. of Plant Industry*.
B. S., Cornell University, 1931 M. S., *ibid.*, 1932. (1934-)
- 李煥華 LI HSIEH-HUA (LEI SIT-WAH), B. S., *In Charge of Research in Sericulture*.
B. S., Lingnan University, 1929; Graduate Study, Yenching University, 1930-1931. (1929-31; 1932-)

- 李德餘 LEI TAK-CHUEN, B. S., *Assistant Professor Vegetable Gardening*.
B. S., University of Illinois, 1925. (1928-)
- 李騰彪 LEE TANG-PIEW, M. D., *Associate Professor of Eye, Ear, Nose and Throat*.
B.A., Taylor University, Indiana, 1916; M. D., University of Michigan, 1919. (1936-)
- 梁毅文 LEUNG NGAI-MAN, M.D., *Associate Professor of Gynecology, Head of Dept. of Obstetrics and Gynecology*.
M. D., Hackett Medical College, 1925; Graduate Study in U. S. A. and Vienna, 1929-1931. (1936-)
- 羅石麟 LO SHIH-LIN, M. C. E., *Assistant Professor of Engineering*.
B. S., Yenching University, 1924; B. S., University of Illinois, 1929; M. C. E., Rensselaer Polytechnic Institute, 1930. (1932-)
- 馬熾標 MA CHI-HUEN, B. A., *Assistant Professor of Accounting*.
B. A., Lingnan University, 1926; C.P.A. (Chi.), 1934. (1926-)
- 馬心儀女士 ROBERTA MA, Ph. D., *Part-time Professor of Plant Physiology*.
B. A., University of Texas 1927; M. A., *ibid.*, 1927; Ph. D., *ibid.*, 1930. (1936-)
- 麥丹路 WILFRID EWART MACDONALD, M.A., *Professor of Mathematics*.
B.A., University of Tennessee, 1901; M.A., Harvard University, 1907. (1910-) (On Leave)
- 莫古黎 FLOYD ALONZO MCCLURE, Ph. D., *Curator of Economic Botany, Professor of Botany*.
B. A., Ohio State University, 1913; B. S., *ibid.*, 1919; M. S., *ibid.*, 1928; Ph. D., *ibid.*, 1935. (1919-33; 1936-)
- 麥克福 FRANKLIN POST METCALF, Ph. D., *Curator of Herbarium, Professor of Botany*.
B. A., Oberlin College, 1913; Ph. D., Cornell University, 1931. (1930-)
- 吳重翰 NG CHUNG-HON, B. A., *Assistant Professor of Chinese Literature*.
B. A., National University of Peking, 1927. (1930-)
- 吳國良 NG KWOK-LEUNG, M. D., *Part-time Associate Professor of Psychiatry*.
M. D., Eissen Ludwig University, 1931. (1937-)
- 韋恩賜 FRANK OLDT, Dr.P.H., *Professor of Public Health, Head of Dept. of Health*.
B. A., Oberlin College, 1901; M. D., Ohio State University; Dr. P. H., Johns Hopkins University. (1936-)

- 白思九 PEH SI-CHIU, M. S., *Assistant Professor of Agronomy*.
B. S., University of Nanking, 1928; M. S., Cornell University, 1936.
(1928-34; 1936-)
- 路考活 HOWARD GARRETT RHOADS, Ph. D., *Associate Professor of English Literature*.
B. A., University of Pennsylvania, 1921; M. A., Harvard University, 1925; Ph. D., University of Pennsylvania, 1931. (1936-)
- 邵堯年 SHIU IU-NIN, *Associate Professor of Floriculture*.
Graduate, Kwangtung Training School for Teachers of Agriculture and Forestry, 1911. (1922-)
- 司徒森 SETO SHAM, Ph. D., *Assistant Professor of Economics*.
B. A., Lingnan University, 1930; M.B.A., University of Pennsylvania, 1932; Ph. D., University of Pennsylvania, 1934. (1934-)
- 蕭祖用 JOSEPH YOUNG SIEUX, J. D., *Professor of Economics*.
B. A., University of Minnesota, 1921; J. D., University of Chicago, 1927. (1927-31; 1935-)
- 洗玉清 SINN YUK-TSING, B. A., *Curator of the General Museum, Assistant Professor of Chinese Literature*.
B. A., Lingnan University, 1925. (1925-29; 1930-)
- 施雲孫 DONALD D. STEVENSON, M. F., *Assistant Professor of Horticulture*.
B. A., Yale University, 1925; M.F., *ibid.*, 1935. (1930-33; 1936-)
- 薛雲宣 T. D. STEVENSON, M. D., *Head of Dept. of Pathology and Bacteriology*.
B. A., Princeton University, 1925; M. D., Johns Hopkins University, 1931. (1936-)
- 譚卓暉 TAAM CHEUK-WOON, Ph. D., *Dean of the University and Librarian*.
B. A., Lingnan University, 1922; B. L. S., Columbia University, 1931; Ph. D., University of Chicago, 1933. (1920-1930; 1933-)
- 戴翰深 TAI HON-SHAM, M. B., *Head of Dept. of Physiology and Pharmacology*.
M. B., Ch. B., University of Edinburgh, 1932. (1936-)
- 譚約瑟 J. OSCAR THOMSON, M. D., *Professor of Surgery, Head of Dept. of Surgery*.
M. D., C. M., McGill University, 1909; Postgraduate Study, U. S. A. and Canada, 1915-1918 and 1921; Fellow of the American College of Surgeons, 1919. (1936-)
- 華理斯 FRANKLIN GERHARD WALLACE, Ph. D., *Associate Professor of Biology*.
B. A., Carleton College, 1923; M. A., University of Minnesota, 1930; Ph. D., *ibid.*, 1933. (1933-)

- 黃延毓 WONG IN-YUK, B.A., *Dean of Men, Assistant Professor of History*,
B. A., Lingnan University, 1932. (1932-)
- 王貴恆 B. L. EVAN WONG, M. R. C. S., *Associate Professor of Anatomy, Head of Dept. of Anatomy*.
M. B., London; L. R. C. P., M. R. C. S., England, 1924. (1936-)
- 黃雯 WONG MAN, M. A., M. B., *Dean, Medical College, Professor of Medicine*.
B. A., Cambridge University, 1916; L. R. C. P., Royal College of Physicians, London; M. R. C. S., Royal College of Surgeons, England, 1919; D. T. M., *ibid.*, Graduate, London School of Tropical Medicine; M. A., Cambridge University, 1920; B. Ch., *ibid.*, 1921; M. B. *ibid.*, 1924; Graduate Study, London, Vienna, 1925-1926, 1927-1928. (1936-)
- 王懷樂 WONG, ROSS W., M. D., *Professor of Surgery*.
M. D., C. M., Queen's University, 1924. (1936-)
- 王叔海 SOOK-HOI S. Y. WANG, M. E., *Professor of Engineering*.
M. E., Colorado School of Mines, 1913. (1932-)
- 黃郁文 WONG YUK-MAN, B. S., *Assistant Professor of Engineering*.
B. S., Armour Institute of Technology, 1920. (1931-)
- 胡繼賢 WU KAI-IN, B. A., *Chairman, Committee on Student Guidance*.
B. A., University of Michigan, 1914. (1929-33, 1935-)
- 伍銳麟 WU YUEY-LEN, M. A., *Associate Professor of Sociology, Acting-Head of Dept. of Social Sciences*.
B. A., University of Illinois, 1926; B. D., Union Theological Seminary, 1930; M. A., University of Illinois, 1927. (1930-)
- 楊壽昌 YEUNG SHAU-CHEUNG, Chu Jen, *Professor of Chinese, Head of Dept. of Chinese*.
Siu Tsai, Chinese Government Examinations, 1886; Chu Jen, 1894. (1926-)
-
- 歐陽燕桃女士 AU-YUENG INTO, B. S., *Assistant in Animal Husbandry*.
B. S., Lingnan University, 1936. (1936-)
- 白約翰 J. G. H. BAKER, B. A., *Instructor in History*.
B. A., Oxford University, 1932. (1936-)
- 卡惠嫻女士 BANTA, HELEN C., B. A., *Instructor in English*.
B. A., Ohio Wesleyan University, 1934. 1935-)
- 陳良士 CHAN LEUNG-SHI, M. C. E., *Part-time Instructor in Engineering*.
C. E. Cornell University, 1934; M. C. E., *ibid.*, 1925. (1933-35; 1936-)

- 陳安其 CHAN ON-LEUNG, M. B., *Part-time Lecturer in Medical Jurisprudence.*
M. B., Sun Yat-Sen University, 1929. (1936-)
- 陳淑儀女士 CHAN SHUK-YEE, B. S., *Assistant in Plant Pathology.*
B. S., Lingnan University, 1936. (1936-)
- 陳德芸 CHAN TAK-WAN, *Part-time Instructor in Chinese Literature.*
(1914-1927; 1930-)
- 陳日生 CHAN YAT-SAN, B. S., *Instructor in Animal Husbandry.*
B. S., Imperial College of Tropical Agriculture, Trinidad, 1930.
(1936-)
- 陳元覺 CHAN YUEN-KWOK, M. D., *Part-time Lecturer in Medicine, College Physicine.*
M. D., Peiping University Medical College, 1929. (1934-)
- 鄒建榮 CHAU KIN-WING, *Instructor in Animal Husbandry.*
Lingnan University, 1925-1926; University of Philippines, 1930.
(1935-)
- 周信銘 CHAU SHIN-MING, Ph. D., *Part-time Instructor in Psychology.*
B. A., Lingnan University, 1929; M. A., Ohio State University, 1933;
Ph. D. *ibid.*, 1935. (1936-)
- 張雅儒女士 CHEUNG NGAR-YE, M. D., *Lecturer in Gynecology.*
M. D., Peiping Women Medical College, 1924. (1936-)
- 張伯瑤女士 CHEUNG PAAK-IU, M. D., *Lecturer in Obstetrics.*
M. D., Hackett Medical College, 1926. (1936-)
- 張瑞芳女士 CHEUNG SUI-FONG, B. S., *Part-time Assistant in Plant Pathology.*
B. S., Lingnan University, 1936. (1936-)
- 張天民 CHEUNG TIN-MAN, M. B., *Assistant in Pathology and Anatomy.*
M. B., B. S., Hongkong University, 1933. (1936-)
- 張敦臣 CHEUNG TUN-SHUN, (THOMSON CHANG) B. S., *Assistant in Chemistry.*
B. S., Cheeloo University, 1933. (1936-)
- 張維耀 CHEUNG WAI-YIU, M. B., *Assistant in Public Health.*
M. B., Kwong Wa Medical College, (1936-)
- 趙淑潔女士 CHIU SHUK-KIT, M. B., *Assistant in Obstetrics.*
M. B., Hackett Medical College, 1932. (1936-)
- 鍾絳根女士 CHUNG KONG-KAN, M. D., *Lecturer in Obstetrics.*
M. D., Hackett Medical College, 1917. (1936-)

- 許寶靜女士 HUI PO-CHING, M. D., *Assistant in Medicine.*
M. B., Hackett Medical College, 1929; Graduate Study, U. S. A.
1935-1936. (1936-)
- 何雄濤 HOH HUNG-TO, B. S., *Instructor in Horticulture.*
B. S., Lingnan University, 1926. (1926-)
- 何格恩 HO KE-EN, M. A., *Part-time Instructor in Chinese.*
B. A., Lingnan University, 1929; M. A. Yenching University, 1932.
(1936-)
- 胡和忠 HU WO-CHUNG, B. S., *Assistant in Animal Husbandry.*
B. S., Lingnan University, 1936. (1936-)
- 葉福安 IP FOOK-ON, B. S., *Instructor in Engineering.*
B. S., Tri-State College, 1934. (1935-)
- 葉漢新女士 YIP HON-SON, M. D., *Assistant in Pharmacology and Physiology.*
M. D., Hackett Medical College, 1927. (1936-)
- 金光祖 CHAMPOR K. T. KING, *Assistant in Plant Pathology.*
B. S., Chekiang University, 1935. (1936-)
- 高兆蘭女士 KAO CHAO-LAN, *Assistant in Physics.*
B. S., Lingnan University, 1934; M. S. *ibid.*, 1936. (1936-)
- 高傑德女士 KO KIT-TAK, M. B., *Assistant in Pediatrics.*
M. B., Hackett Medical College, 1936. (1936-)
- 高永馨 KO WING-YUE, M. S., *Part-time Instructor in Engineering.*
B. S., Lingnan University, 1935; M. S., University of Michigan 1936.
(1936-)
- 官懷德女士 KOON WAI-TAK, M. B., *Assistant in Medicine.*
M. B., Hackett Medical College, 1934. (1936-)
- 鄺磯法 KWONG KEI-FAAT, B. A., *Part-time Instructor in Mathematics.*
B. A., University of California, 1927. (1935-)
- 郭桂貞女士 KWOK KWAI-CHING, M. D., *Assistant in Medicine.*
M. D., Hackett Medical College, 1929 (1936-)
- 羅友仁 EUGENE W. LOW, D. T. M., *Lecturer in Medicine.*
M. B., B. Ch., Edinburgh, D. T. M., Liverpool, 1931 (1936-)
- 林金意 RICHARD K. Y. LUM, M. S. A., *Part-time Instructor in Animal Husbandry.*
B. S. A., University of Hawaii, 1924; M. S. A., *ibid.*, 1929. (1936-)
- 林美玉女士 NANCY LIM, B. A., *Director of Physical Education for Women.*
B. A., University of California, 1935. (1936-)

- 林寶媛女士 LUM, FLORENCE, B. S., *Assistant in Chemistry*.
B. S., University of California, 1935. (1936-)
- 林大恩 LIN TAI-EN, B. S., *Assistant in Plant Pathology*.
B. S., Fukien Christian University, 1933. (1936-)
- 李來榮 LI LAI-YUNG, M. S., *Instructor in Biology*.
B. A., Fukien Christian University, 1930; M. S., Lingnan University,
1934. (1933-)
- 李兆強 LEI SHIU-KUENG, B. A., *Instructor in History*.
B. A., Lingnan University 1932; Graduate Study at Ridley Hall,
Cambridge, 1933-4. (1935-)
- 梁錫光 LEUNG SHEK-KWONG, M. B., *Assistant in Surgery*.
M. B., Sun Yat-Sen University, 1929. (1936-)
- 盧鴻浩 JAMES H. LOO, LL. B., *Part-time Instructor in Government*.
B. A., Mercer University, 1930, LL. B., Mercer University, 1932.
(1935-)
- 盧子葵 LO TSZ-KWAI, B. S., *Instructor in Business Administration*.
B. A., Lingnan University, 1931. (1936-)
- 盧婉卿女士 LO YUEN-HING, B. S., *Assistant in Biology*.
B. A., Lingnan University, 1936. (1936-)
- 羅和平女士 LOH WOH-PING, M. A., *Instructor in Home Economics, Acting
Dean of Women*.
B. A. Lingnan University, 1927; M. A., Oregon State College, 1935.
(1935-)
- 呂達勳 LUI TAT-FUN, M. B., *Assistant in Eye, Ear, Nose and Throat*.
M. B. Kwong Wa Medical College, 1936. (1936-)
- 麥丹路夫人 MRS. W.E. MACDONALD, B.A., *Part-time Instructor in Music*.
B. A. University of Chicago, 1917; Graduate Study in Music, *ibid.*
(On Leave)
- 莫京 MOK KING, B. A., *Part-time Instructor in Sociology*.
B. A. Upsala University, 1927. (1935-)
- 吳亮如女士 NG LEUNG-YUE, B. A. *Instructor in Biology*.
B. A. Lingnan University, 1927; M. S., *ibid.*, (1935-)
- 彌有恒 NYE YAU-HANG, M. D., *Part-time Lecturer in Radiology*.
M. D., North Western University, 1928. (1936-)
- 彭利 PANG LEE, M. A., *Part-time Lecturer in Bacteriology*.
M. A., University of California, (1936-)
- 彭紹光 PANG SHIU-KWONG, B. S., *Assistant in Horticulture*.
B. S., Lingnan University, 1935. (1935-)

- 彭瑞平女士 PANG SUI-PING, M. D., *Lecturer in Pediatrics*.
M. D. Hackett Medical College, 1922. (1936-)
- 施來福 WALTER SCHLAPFER, *Part-time Instructor in German*.
Graduate, Kantonsschule St. Gallen, Switzerland, 1928; Student.
University of Basel, 1928-29; Ecole Nationale des Langues Orientales
Vivantes, Paris, 1929-30; University of Berlin, 1930-31; University
of Lyons, 1931-32. (1935-)
- 石美卿女士 SHEK MEI-HEUNG, M. D., *Assistant in Surgery*.
M. D., Hackett Medical College, 1928. (1936-)
- 鄧英華女士 TANG YING-WAH, M. B., *Assistant in Gynecology*.
M. B., Hackett Medical College, 1933. (1936-)
- 譚約瑟夫人 MRS. J. O. THOMSON, M. A., *Part-time Instructor in Music*.
B. A., Ursinus College, 1918; M. A., University of Pennsylvania,
1922. (1936-)
- 曾慶雲女士 TSANG HING-WAN, B. S. *Assistant in Biology*.
B. S., Lingnan University, 1936. (1936-)
- 左維明 TSO WAI-MING, M. D., *Part-time Lecturer in Physiology*.
L. R. C. P., L. R. C. S., Royal Colleges of Physicians and Surgeons,
Edinburgh; L. R. F. P. S., Royal Faculty of Physicians and Surgeons,
Etastow, 1931; M. D., University of Qwich, 1933. (1936-)
- 徐康寧 TSUI HONG-NING, *Director of Physical Education for Men*.
Springfield College, 1931-2. (1936-)
- 華理斯夫人 (MRS.) PATTY A. WALLACE, B. A., *Instructor in English*.
B. A., University of Minnesota, 1933. (1935-)
- 黃梓榮 WONG CHEE-WING, J. D., *Part-time Instructor in Government*.
B. A., University of Richmond, 1932; M. A., Boston University, 1933;
J. D., Harvard University, 1935 (1935-)
- 王浩真 WANG HAO-CHENG, B. S., *Assistant in Horticulture*.
B. S., University of Nanking, 1934. (1936-)
- 黃崑崙夫人 (Mrs.) P. H. WONG, M. S., *Instructor in Home Economics*.
B. A., Lingnan University, 1929; M. S., Oregon State College, 1933.
(1933-)
- 黃善基 WONG PO-CHUEN, Ph. D., *Part-time-Instructor in Agronomy*.
Ph. D., Martin-Luther University, 1933. (1935-)
- 黃錫凌 WONG SIK-LING, B. A., *Instructor in Chinese*.
B. A., Lingnan University, 1931. (1933-)

- 黃石民 WONG SHEK-MAN, M. B., *Assistant in Medicine*.
B. A., Oberlin, 1921; M. B., B. S., Hong Kong University, 1927.
(1936-)
- 王兆霖 WONG SIU-LAM, M. B., *Assistant in Public Health*.
M. B., Sun Yat-Sen University, 1929. (1936-)
- 黃才英女士 WONG TSOI-YING, M. B., *Assistant in Pediatrics*.
M. B., Hackett Medical College, 1932. (1936-)
- 黃翠鳳女士 WONG TSUI-FUNG, M. A., *Part-time Instructor in Sociology*.
B. A., Lingnan University, 1924; M. A., University of Michigan, 1928.
(1933-)
- 王子輔 WONG TSZ-FU, B. S., *Instructor in Physics*.
B. S., Lingnan University, 1933. (1936-)
- 黃玉瑜 WONG YUK-YUE, B. S., *Part-time Instructor in Engineering*.
B. S., Massachusetts Institute of Technology, 1925. (1931-)
- 胡國豪女士 WU KWOK-HO, B. S., *Assistant in Chemistry*.
B. S., Yenching University, 1933. (1936-)

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Academic Calender	Inside Back Cover

LINGNAN UNIVERSITY (嶺南大學) is a private Christian University with an international faculty, offering collegiate instruction to both men and women in its four colleges,—Arts and Sciences, Agriculture, Engineering, and Medicine (Dr. Sun Yat-sen Memorial College). In addition to these colleges it operates at Honglok (康樂) a middle school, a primary school, a section for overseas boys, and an agricultural middle school. It also operates branch schools of primary and middle school grade in Canton, Hongkong, Shanghai, and Singapore.

History

THE HISTORY of Lingnan University goes back to the vision and foresight of a few men, notably the Rev. B. C. Henry, the Rev. A. P. Happer, and Mr. W. Henry Grant. Their ideal was to build up a school under Christian auspices where Chinese students could get, without going abroad, the modern education they were demanding. Quoting the declaration of the College: "The purpose of the Trustees of Canton Christian College (Lingnan University) is to establish in Canton and adjacent territory in China, an institution of the the highest standards of educational efficiency, under Christian influences."

In 1893 the Trustees applied to the University of the State of New York for incorporation, and the charter was granted on December 13 of that year. In November of that year the Trustees took over from the Presbyterian Board the existing plant, staff and work of the Pui Ying School (培英) at Fati (花埭), paying \$9,000 gold for the property. Dr. Happer having resigned, Dr. B. C. Henry of the Presbyterian Mission was made President. Dr. Henry later resigned the Presidency and Dr. Henry V. Noyes was elected to that position.

More rapid development followed the appointment in 1898 of the Rev. O. F. Wisner as President. The Chinese name of the school used in the advertisements issued at the time was Kaak Chi Shue Yuen (格致書院). Seventeen pupils were enrolled, among them the very charming and capable young patriot, Sz Kin-Yue (史堅如), who in 1900 lost his life in a premature effort to overthrow the Manchu government.

The Pui Ying School at Fati was taken back by the Presbyterian Mission in 1899, and one of President Wisner's first duties was the securing of a suitable site for the College. After more than three years of exhaustive search, such a site was found and on October 18, 1902, \$2500.00 deposit money was paid down on a plot of ground which included about 15 acres near Honglok Village (康樂) on Honam Island (河南島).

In the meantime in 1900 the school had been moved to Macao where it remained until the fall of 1904 when the school was moved from

Macao into temporary buildings on the new site. In 1905 Martin Hall was built, the first reinforced concrete structure to be erected in China.

Permanent buildings designed to combine the most modern architectural methods with Chinese style have been erected from time to time, notably the Administration Building (Grant Hall) provided by Mrs. J. S. Kennedy, the Auditorium and Christian Association Building given by Mr. Ambrose Swasey, the Science Building (Straight Hall) given by Mrs. Willard Straight and the Rockefeller Foundation, the Agricultural Building given by a group of Chinese friends, the Infirmary and the Guest House, the two latter being the gift of Mr. Ma Ying-Piu (馬應彪). Dormitories have been provided mainly by Chinese friends here and abroad. The three new and attractive buildings are the Luk Yau Dormitory (陸佑堂), gift of the Wong brothers (黃容康, 黃容章), Chit-Sang Hall (哲生堂), gift of the Ministry of Railways, and the new Women's Dormitory, for which funds were raised by the American Foundation from friends in the United States. A modern filtration system providing an ample supply of pure water was installed in 1932.

Without question the most notable year in the history of the institution was 1927. The early part of the year was marked by the important sittings of the commission appointed from New York to consider the matter of the transfer of the University from American to Chinese control. These negotiations were scarcely terminated when the University became involved in labor troubles of such a serious character that it became necessary on April 15 to declare the institution closed. This was the only way in which the outgoing administration could assure the incoming one a free hand in its control of the University. Fortunately, being favored by the political situation at the time, the plan was successful and provision was made for the students to complete a large part of their semester's work in home study. Successful commencement exercises were held on June 30, and the well-attended summer session constituted the final piece of work by the American administration. On August 1, in a very impressive ceremony, the symbols of authority were handed by the retiring President, Dr. J. M. Henry, to the newly elected first Chinese President, Dr. W. K. Chung, and the new era was entered upon without the slightest sense of jar or dislocation. The American Board of Trustees, through the American Foundation at Lingnan, has been cooperating in providing American professors and grants for specific purposes.

Since 1927 the University has developed rapidly. In 1929 arrangements were made with the Ministry of Railways for the opening of the College of Engineering to train civil engineers largely for government service. Definite steps have been taken to remove the Middle School from the main campus and a beautiful group of buildings has been in process of construction adjoining the University campus on the east. The new Medical College unit was added in 1936.

Location

THE UNIVERSITY, which is within the limits of the modern city of Canton, is located on the north side of Honam, (河南) a long island extending east and west in the Pearl River opposite the old city of Canton.

Canton, which occupies a central position in the delta of the Pearl River, is the capital of Kwangtung Province, and about ninety miles from the port of Hongkong. The campus is about three miles from the main part of the city and is connected with the city by regular bus and launch services. It occupies approximately six hundred acres of land and at present has ninety-eight permanent brick-and-concrete buildings, including, besides four academic buildings, four college dormitories, eight middle school buildings, seven primary school cottages and forty residences.

Buildings and Equipment

THE UNIVERSITY has approximately six hundred acres of land, ninety-eight permanent brick-and-concrete buildings, one hundred seventy two temporary buildings, and several athletic fields. All of the permanent buildings are 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 a green glazed tile which was not available for use on private buildings in the days of the empire. An effort has been made to adopt the Chinese motif in architectural treatment wherever possible. The more important of the permanent buildings are listed below.

MARTIN HALL (1905): Library (first and second floors), College class rooms, departmental offices of the College of Arts and Sciences.

CARPÉNTIER HALL (1911): School for the training of nurses, Canton Hospital.

GRANT HALL (1915): Administration Building, Bookstore, Bank.

SWASEY HALL (1915): Student Christian Association Building, with assembly hall seating about 800 persons.

THE INFIRMARY (1918): Dispensary, physicians' offices, operating room, private rooms and wards, Built with funds provided by Mr. Ma Ying-Piu (馬應彪) in honor of his wife.

JAVA HALL (1919): College dormitory, given by Chinese friends in Java.

SERICULTURE BUILDING (1920): Plant for rearing and culture of silkworms. Gift of Silk Association of America.

SERICULTURE DORMITORY (1920): Gift of Mr. Marcus Frieder.

CHANG HALL (1921): Overseas students' dormitory and school building. Gift of Mr. Chang Pik-Shih (張弼士).

- GUEST HOUSE (1922): Reception room and place for small social gatherings. Gift of Mr. Ma Ying-Piu (馬應彪).
- WING KWONG HALL (1924): College dormitory. Gift of students.
- ALUMNI HOUSE (1925): Gift of Mr. Taam Lai-Ting (譚禮庭).
- ATWOOD REELING LABORATORY (1925): Houses modern apparatus for reeling silk. Gift of Mr. Eugene Atwood.
- STRAIGHT HALL (1928): For Departments of Biology, Chemistry, and Physics. Erected with funds provided by Mrs. Willard Straight and the Rockefeller Foundation.
- AGRICULTURE HALL (1929): Classrooms, laboratories, exhibition hall, garden store. Gift of ten Chinese friends.
- LUK YAU HALL (1931): College dormitory. Gift of two alumni, Messrs. Wong Yung-Cheung and Wong Yung-Hong (黃容章. 黃容康).
- ENGINEERING HALL (1931): Classrooms and laboratories. Built with funds from the Ministry of Railways, Nanking.
- THE WOMEN'S DORMITORY (1933): College dormitory for women. Gift of friends in America through the American Foundation. About half the money came from the Oranges in New Jersey.
- FILTRATION PLANT (1932): Gift of American friends.
- FOUR MIDDLE SCHOOL DORMITORIES (1909-16). Gift of Chinese friends.
- PRIMARY SCHOOL GROUP (1916-31). Gift of Chinese friends.
- THE NEW MIDDLE SCHOOL GROUP (1933-): Five buildings: two completed, one under construction. Gift of Chinese friends.
- FREEMAN METEOROLOGICAL OBSERVATORY (1935).
- LINGNAN CHAPEL (1936): For morning chapel service. Erected with funds donated by the Lingnan Community and friends abroad.
- ENGINEERING LABORATORY (Hydraulic Laboratory) 1936.
- STAFF RESIDENCES.
- MEDICAL COLLEGE UNIT (1936). Largely from funds given by the National Government.

The University Library

THE UNIVERSITY LIBRARY, now housed in Martin Hall, has two distinct sections, one consisting of books in Chinese, and the other of books in foreign languages, chiefly English. The foreign language collection contains approximately 49,000 volumes and the Chinese collection approximately 114,000 volumes. Several departments, among them the Medical College, the Middle School, the Overseas School, and the Western School, are equipped with books loaned from the main collection.

The library aims to serve the needs of students in the various Colleges. Besides the material in the library itself, faculty members place their private libraries at the service of students, so that the students have access to over 163,000 bound volumes on the campus. Some of these private libraries, particularly in physics, chemistry, biology, the social sciences, and education are unusually well-selected and valuable.

Over 3,700 periodicals, weeklies, monthlies, and quarterlies, general and technical, are kept on file, the more valuable ones being bound and used for departmental research work. About 700 of these are in Chinese. Of daily newspapers in Chinese, the library binds and files most of the local papers, dating from 1902 to date.

The classification of the foreign language section is based upon the Dewey decimal system, with the exception of the books on China, for which there is a specially devised classification. Library of Congress catalogue cards are used in so far as possible. The library also subscribes to all cards relating to China issued by the Library of Congress, whether the books represented by the cards are in the University library or not. This bibliography of China is kept in a separate file, and containing author, subject and title cards, affords an index to a large part of the existing foreign literature on China.

The library has several special collections. As a matter of course, all books pertaining to China hold a special interest. Practically all the foreign periodicals on China are subscribed to. They are approximately 100 in number. The library makes a special effort to obtain all books on Kwangtung Province, both in Chinese and in English. In the Chinese collection there are about 600 sets concerning Kwangtung Province. Another collection of special interest is that of Tsang Chiu's (one of Kwangtung's famous book collectors). Complete publications of government bureaus, both provincial and municipal, are to be found in this library. In correlation with the other libraries in Canton, an effort is being made to obtain a complete set of all gazeteers of the districts of Kwangtung Province. In 1922, the *Lingnan Science Journal* began an exchange system with a large number of scientific societies and periodicals. There are now sets of over 670 periodicals of a scientific nature, from nearly every country in the world. Thus the library is an excellent source for scientific research and study. There is a special catalogue giving author, title and subject references to articles in foreign periodicals dealing with China. The Chinese section also has a periodical catalogue indexing all Chinese periodicals subscribed to by the library. A union catalogue of the libraries in Canton, namely, the Sun Yat-Sen University library, the provincial and municipal libraries and Lingnan University library, is now in preparation.

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 govern-

ment and several administrative departments of the Chinese Republic, as well as for publications of other governments. The library is open during both the day and the evening.

The General Museum

THE GENERAL MUSEUM, located in Agriculture Hall, has a selection of articles and specimens of general and scientific interest.

In the collection are about 300 specimens of woods, about a thousand coins, including many ancient Chinese coins, about 600 pieces of anthropological specimens, 200 pieces of old porcelaine and bronze, 500 fossil and mineral specimens, a number of 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 Lingnan Natural History Survey and Museum

THE LINGNAN NATURAL HISTORY SURVEY AND MUSEUM was organized as a separate department early in 1932. Although only recently designated as a separate organization, the Natural History Survey and Museum was in reality begun with the establishment of the herbarium in 1916. The faunal survey and the resulting zoological collection was started the following year upon the organization of the Department of Biology, which, in 1918, incorporated the herbarium. In 1932 the Department of Biology was divided into two departments, one department retaining the old name, the other being called the Lingnan Natural History Survey and Museum. The Department of Biology and the Natural History Survey and Museum are now entirely separate organizations although several professors serve in both departments. Professor Wm. E. Hoffmann is the Director of the Lingnan Natural History Survey and Museum.

Emphasis has been placed primarily upon a survey of the plants and animals of Kwangtung Province and the Island of Hainan, with especial reference to the economic status of the same. The collections are representative ones and have been built up with the idea of being of great service to the people of this region. Thus far (owing to insufficient space) only moderate emphasis has been placed on public exhibits, but this phase will be developed as rapidly as possible. The word "survey" is interpreted in its broadest sense, that is, the ultimate use and value of our collections (and data concerning them) is ever kept in mind. We are not content with a mere list of animals and plants along with locality records, but endeavor to get data on the biology, ecology, geographical distribution, and economic status of the forms collected in order that valuable information

may be made available to farmers, merchants, and manufacturers. The results of the investigation are being published from time to time and constitute not only contributions to the study of the fauna and flora of Southern China but also point out the practical uses of this information.

The Herbarium, occupying about 6000 square feet of floor space, contains about 50,300 mounted specimens. Of the total number, about 45,000 are Chinese plants, of which the majority are from Kwangtung. In field work our major emphasis has been placed on Kwangtung, and Hainan in particular to which island we have already dispatched many expeditions. The adjacent provinces of Fukien, Kwangsi, and Hunan have received secondary emphasis. A general survey of Hainan is being undertaken and a Flora of Fukien is being prepared. The reference collections from other provinces are being rapidly added to by means of exchange, in order to increase the facilities for advanced work in taxonomy.

The collection of materials of economic botany, in addition to the herbarium specimens, includes drug plants, wood samples, seeds, fruits, native fibers, specimens and apparatus illustrating the hand-made paper industry, and bamboo. The bamboo collection consists of numerous objects, useful or ornamental, made from bamboo.

Of the botanical work, the emphasis has been placed on the economic and upon the taxonomic phases. In the case of the former, considerable attention has been given to a study of bamboo, hand-made papers, Tung oil, vegetable dyes, and persimmons. In connection with the bamboo study, a bamboo garden has been established in which already more than a hundred kinds of bamboos are growing. In field work, our major interest has been in the flora of Hainan, Kwangtung proper, and Fukien. In classification, aside from a systematic study of the bamboos, emphasis has been placed upon the preparation of a Flora of Fukien.

The zoological collections contain representative assemblages of most of the systematic groups, but the collections of insects, birds, and fish are especially strong. The insect collection has, in addition to the 100,000 pinned adults, a large number of identified immature forms and a collection of insects of economic importance arranged into groups according to the plants they attack.

In zoological research emphasis has thus far been placed on entomology, ichthyology, herpetology, and ornithology. In connection with the first named, an insectary has been constructed and the complete life histories of many injurious insects worked out. The aim has been to secure information on the biology, ecology, and taxonomy of insects which may be used in the teaching of entomology in China and which will also point out practical methods of insect control. More than 100 scientific papers, on animals and plants have been written by the scientists of the Survey and Museum.

Lingnan Science Journal

THE LINGNAN SCIENCE JOURNAL, a quarterly published in English (with Chinese abstracts) by Lingnan University, is now in its sixteenth volume. The oldest and largest scientific periodical of its type in China, it publishes over 700 pages annually on various phases of biology, entomology, botany, parasitology, ichthyology, agriculture, physical sciences, public health, and related fields. Among its contributors are the outstanding scientists in China as well as many abroad who are specialists on Chinese fauna or flora. A large number of papers have been written by members of the faculty and staff of Lingnan University.

The Lingnan Science Journal includes, besides its original articles, a Book Review section, and an extensive Abstracts Section in which an attempt is made to review all current periodical literature dealing with science in China. The General Notes call attention to new publications in China, science conferences and expeditions, establishment of scientific institutes and other matters of current interest.

The Lingnan Science Journal is perhaps the most widely distributed scientific magazine published in China, reaching over 500 institutions, colleges, and libraries, in some 65 countries. More than 670 different scientific journals, bulletins and other publications are received in exchange, and are deposited in the Lingnan University Library, where they are available to students and staff-members of the University and to scientists and researchers in South China. These exchange publications cover a wide range of subjects, including not only various phases of biology and agriculture but also medicine, engineering, economics, home economics, various industries and trades, and the arts.

Established in 1922 by the College of Agriculture and originally issued twice a year under the title "Lingnaam Agricultural Review", with Volume 5 this magazine became a University publication, enlarging its scope and appearing four times each year, with its present title. Subscription to the Lingnan Science Journal is Yuan \$5 or U. S. \$3 per volume, payable in advance. All orders and communications should be addressed: Lingnan Science Journal, Lingnan University, Canton.

Lingnan University Science Bulletin

THE LINGNAN UNIVERSITY SCIENCE BULLETIN is issued from time to time as suitable material becomes available, and is intended especially for contributions: (1) primarily of local interest; (2) too long for publication in the usual journals; (3) not quite suited to any other journal; (4) designed for some special purpose or for a special group of readers. The seven bulletins which have already been published are as follows: (1) Fifty-one Common Ornamental Trees of the Lingnan University Campus, by Egbert H. Walker, 166 p., many illustrations, \$1.00 Yuan; (2) Plants of Lung-

taushan, by G. Weidman Groff, 138 p., \$1.00 Yuan; (3) Plants of Lantau Island, by F. A. McClure, 44 p., 1 map, \$.50 Yuan; (4) The Chemical and Physical Properties of Soybean Milk, by Chiu Yan-tsz, 38 p., 1 plate, 9 figures, \$.50 Yuan; (5) Preliminary Notes on the Fresh-water Fish Industry of South China, Especially Notes on the Fresh-water Fish Industry of Kwangtung Province, by William E. Hoffmann, 70 p., colored frontispiece, 11 plates, \$.75 Yuan; (6) The Flora of a Canton Herb Shop, by F. A. McClure and Hwang Ts'ui-mei, 32 p., frontispiece, \$.50 Yuan; (7) An Abridged Catalogue of Certain Scutelleroidea (Plataspidae, Scutelleridae, and Pentatomidae) of China, Chosen, Indo-China, and Taiwan, by William E. Hoffmann, 294 p., 2 figures, \$1.50 Yuan. Bulletin No. 8, entitled A Study on the Loss of Nitrogen in Connection with the Use of Chemicals for the Killing of Hookworm Eggs in Nightsoil, by Frank Lai-Ngi Chan, is now in press. The *Lingnan University Science Bulletin* may be purchased from the *Lingnan Science Journal*.

Freeman Meteorological Observatory

THE FREEMAN METEOROLOGICAL OBSERVATORY, which in 1935 moved into its new quarters on the Campus, is completely equipped for making daily meteorological observations. Daily records are kept, posted three times a day, and a report of them published quarterly.

The original instruments were gifts of Mr. John R. Freeman of Providence, R. I. A recording tide gauge, the gift of Messrs. A. and F. Gurley, Troy, N. Y., is installed at the University wharf.

The location of the observatory on the campus is 23° 06' N. Lat. 113° 19' E. Long. Dr. C. Y. Hsu is the Director of the Observatory.

Lingnan Social Survey (嶺南社會調查所) (Formerly Lingnan Social Research Institute)

THE LINGNAN SOCIAL SURVEY was organized on March 1, 1932 under the name, Lingnan Social Research Institute (嶺南社會研究所). In order to avoid conflict with governmental regulations which reserve the terms "Research Institute" (研究所) for the sole use of those departments of study that form a part of "Graduate Schools" (研究院), the present name was adopted in September, 1935.

The purpose of the Social Survey is to promote and prosecute social research and social survey in South China. Membership is open to all who take an active part in this research program.

The research projects of the Lingnan Social Survey are of two kinds: (1) those based on the community survey plan, and (2) those based on the cultural side of life.

Projects of the first kind have been completed and their findings published from time to time, as for example: The Shanam Boat Peoples' Survey (沙南蛋民調查報告), published in the form of a monograph in The Lingnan Journal (嶺南學報), Volume III, Number I, January, 1934; The Kau Fung Wong Village Survey (舊風風村調查報告), published in the Lingnan Journal, Volume IV, Number III, August, 1935. The Samshui Hohhow Boat Peoples' Survey (三水河口蛋民調查), published in the Lingnan Journal, Volume II, Number II, August, 1936.

Research problems with special reference to Chinese and Western Culture have been prosecuted with vigour, resulting in the following publications:—The Future of Chinese Culture (中國文化之出路), published by Shanghai Commercial Press, in book form; Northern and Southern Culture of China (南北文化觀), a monograph published by the Lingnan Journal, Volume III, Number III, May, 1934; "Total Westernization, Selected Essays," Volumes I and II (全盤西化言論集), published in pamphlet form in 1934 and 1935.

Aside from these projects, the following are still in the process of being prosecuted:

Social and Economic Survey of Tsung Fa Hsien.
A Survey of the Ricksha Coolies of Canton City.
The Loi and Miao Aborigines of Hainan Island.
Chinese Immigrants in Siam.

Research

The university administration considers research to be a definite and fundamental part of its program, and encourages its staff members not only to transmit learning, but also to create it. A committee on research is maintained as a definite part of the academic organization with the object of promoting and coordinating the various research projects under the different departments of the Colleges. Already the University has made some outstanding contributions to science, particularly in the fields of natural history, agriculture and sericulture as revealed in part in the pages of the *Lingnan Science Journal* (continuation of *Lingnan Agricultural Review*), in English, now in its sixteenth volume. In the fields of education and the social sciences considerable work is also under way, and findings are appearing chiefly in the pages of the *Lingnan Journal*, in Chinese, now in its sixth volume. The Lingnan Natural History Survey and Museum and Lingnan Social Survey are maintained as distinct organizational units, and finance is sought from individuals and foundations interested in the promotion of research. For the double purpose of informing the public of successful research carried on at Lingnan, and of giving public recognition to staff members who have distinguished themselves in research, a lecturer is appointed annually by the President for a series of lectures which are known as the Lingnan University Research Lectures. Thus through its publications and lectures the University records the findings of its staff in the field of research, and popularizes these findings for the public.

The Infirmary

THE INFIRMARY was given by Mr. Ma Ying-Piu (馬應彪), member of the Board of Directors, in honor of his wife in 1918. Its staff consists of two resident doctors, two nurses, a pharmacist, a registrar, and several visiting physicians. Students and members of the University Staff receive treatment and health supervision here.

The Canton Hospital

THE CANTON HOSPITAL, the oldest hospital in China and one of the best equipped, has a capacity of 300 beds. It is an institution under the Board of Directors of the University, and is situated in Canton. More serious diseases of students and faculty which cannot be taken care of at the Infirmary are taken care of in this hospital. Special rates have been provided.

University Organizations

THE FOLLOWING is a list of general organizations:

- General Student Union
- College Student Union
- Middle School Student Union
- Overseas Student Union
- Sub-collegiate Agriculture Course Student Union
- College Women's Association
- Lingnan Christian Association
- University Band
- Athletic Association
- Christian Fellowship
- Phi Tau Phi Honorary Scholastic Society
- Arts and Science Club
- Chinese Staff Club
- Women's Auxiliary
- Community Service Association
- Lingnan Village Service Union

Special and Professional Clubs for College Students:

- Science Club
- Chemistry Club
- Education Club
- Business Association
- Agriculture Society
- Engineering Association
- Social Science Club
- International Relations Club
- Physics Club

Wing Kwong Hall Group
Sang Woot Society
Dramatic Club
Men's Glee Club
Girls' Glee Club
Philharmonic Orchestra
Graduate Club

Phi Tau Phi Scholastic Honor Society of China Lingnan University Chapter

THE PHI TAU PHI National Honor Society of China was founded in 1921, and now has about a dozen chapters established in various educational centers in the country. The Lingnan University Chapter was established in 1931, and has a total membership of 51 in June 1936. The purpose of the Chapter is to encourage high scholarship and productive research, and to create ties between its members and those of other chapters of the Society. Students graduating from this institution who have displayed outstanding ability or who have attained distinction in their college work, and staff members who have received Phi Beta Kappa, Sigma Xi, or equivalent honors, or who are eminent in their special fields, are eligible to membership in the Society. The control of the Chapter is invested in an Executive Council consisting of a President, a Vice-President and a Secretary-Treasurer to be elected annually. Initiation ceremonies are held at the end of the second semester of each school year.

The International Relations Club

THE INTERNATIONAL RELATIONS CLUB was formed in 1930 by students and members of the staff for the discussion of questions of international interest. The Club is affiliated with a hundred or more similar clubs in all parts of the world assisted by a headquarters office in New York City maintained by the Carnegie Endowment for International Peace. From this office the Club receives a score of copies of its *Fortnightly Summary of International Events*, also every year the gift of a number of books. The Club's library, numbering nearly one hundred volumes, is separately catalogued and kept accessible to all members of the University. The meetings of the Club are held fortnightly throughout the year.

The Arts and Science Club

THE ARTS AND SCIENCE CLUB exists as a medium through which general University meetings of a broad, cultural nature, in the field of both the arts and the sciences, are conducted. Under its auspices regular monthly programs of lectures, plays, concerts, and the like are

given during the academic year, while from time to time special meetings to hear distinguished visitors are held. These events are open to the public, and notices concerning them are sent to English-speaking members of the University and of the general community of Canton.

Athletics

STUDENTS are expected to take regular daily exercise, and play-ground space is provided so that all may take part in athletic games. There are four foot-ball fields, two base-ball fields, fifteen basket-ball courts, six volley-ball courts, fourteen tennis courts, a swimming pool, and a running track. The University has teams in the various athletic leagues in Canton, competes with Hongkong schools, and is usually represented in the National Meet at Nanking.

Periodicals and Bulletins

THE UNIVERSITY issues a number of current periodicals and bulletins, including the following:

(校報) THE UNIVERSITY BULLETIN, a bi-weekly in Chinese, gives official reports, documents, and other material of a similar nature.

(嶺南學報) THE LINGNAN JOURNAL, a quarterly in Chinese, contains both literary and scientific articles contributed by faculty members. The price is \$3.20 national currency a year, \$0.80 per issue.

THE LINGNAN SCIENCE JOURNAL is published quarterly, in English. It prints papers presenting the results of original research in China in the fields of agriculture, biology, and the physical sciences. The subscription price is \$1.50 national currency per number.

THE LINGNAN SCIENCE BULLETIN is published from time to time.

THE DAILY METEOROLOGICAL RECORD, an English bulletin issued quarterly, gives a record of the meteorological observations made each day at the Freeman Meteorological Observatory, together with monthly summaries.

(南大經濟) THE LINGNAN ECONOMIC REVIEW is published in Chinese by the faculty members and students of the Department of Business Administration, devoted to articles on economics and business administration.

(南大工程) THE JOURNAL OF THE LINGNAN ENGINEERING ASSOCIATION is published in Chinese by the faculty members and students of the College of Engineering. The price is \$.20 per number.

(南大與華僑) THE LINGNAN OVERSEAS CHINESE BULLETIN is a bi-monthly in Chinese giving news of interest to our overseas friends.

STUDENT ORGANIZATIONS publish the following periodicals:

(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.

(嶺南週報) THE LINGNAN WEEKLY is published by the General Student Union. It is a weekly news sheet in Chinese which gives school news and also publishes literary and critical articles by students.

(南大青年) THE LINGNAN CHRISTIAN ASSOCIATION publishes a periodical which is devoted to news of the Association and articles on religion, philosophy, etc.

The following bulletins and leaflets are issued to give information about the institution and may be obtained by writing to the Registrar. Sub-pollegiate schools each publish a leaflet in Chinese which is free of charge. The leaflets are free; the charge for the bulletins is forty cents, except to patrons of the institution, to cover the cost of publication.

NAME	CHARACTER
Calendar	Chinese leaflet on dates, fees, entrance, etc.
Calendar for Overseas Students	English leaflet on dates, fees, entrance, etc. for overseas students.
University Catalogue, English Edition	English bulletin on courses, regulations, etc.
University Catalogue, Chinese Edition	Chinese bulletin on courses, regulations, etc.

Graduates, 1918-1936

The University has graduated 516 students from 1918 to 1936:

1918	3	1928	37
1919	0	1929	31
1920	4	1930	41
1921	4	1931	38
1922	10	1932	31
1923	13	1933	41
1924	16	1934	39
1925	27	1935	59
1926	29	1936	65
1927	28		
			516

Degrees Awarded:	Graduates of the Colleges:	
B.A.	Arts and Sciences	300
B.S.	Agriculture	73
	Business Administration	115
	Engineering	28
	Men	403
	Women	113
		516

GENERAL INFORMATION

Admission to the Freshman Year

The following are qualified to apply for admission to the Freshman year:

- Graduates of middle schools registered with the Ministry of Education.
- Graduates of middle schools in Hongkong and foreign countries registered and approved by the respective governments.
- Students who have passed the Matriculation Examination held by the University of Hongkong.
- Students who hold certificates of the Senior Local Oxford or Cambridge Examinations.

The following credentials are required:

1. An application-form properly filled out by the applicant. The form provided by the University must be used.
2. An official diploma or certificate of graduation from an accepted middle school.
3. A transcript of all completed courses, sent direct through the mail to the Registrar, by the appropriate officer of the applicant's middle school. The transcript should not be brought by the applicant.

Note: A supplementary transcript, covering courses not completed when the first transcript was issued, should be sent as soon as possible after the close of the semester. Without this final record, the applicant can be admitted only provisionally.

If the name in English used in the transcript is not the same as the applicant's name in Chinese, a romanized Chinese name must also be given and certified by the appropriate officer.

4. A personnel-form filled out by a responsible officer of the applicant's middle school. The form provided by the University must be used.
5. A specific recommendation from the principal, testifying to the applicant's character, and to his ability to do college work.
6. Military training certificate testifying to the number of years of military training completed in middle school.
7. Laboratory note-books for science courses such as Physics, Chemistry, and Biology. The note-books should be certified by the proper instructor.
8. Five two-inch photographs.
9. An application fee of \$1.00 National Currency.

Application-forms, transcript-forms and personnel-forms can be obtained from the Registrar.

Entrance Examinations

Entrance examinations are given in July, August, and January at the University. The actual dates for the examinations for 1937-38 are found on the Academic Calendar on the inside back cover of this catalogue. All students applying for admission by examination must appear for the entrance examinations at the time designated. The examinations will not be given at any other time. The subjects and schedule of the examinations are as follows:

	9:00-12:00 A.M.	2:00-5:00 P.M.
First day	English	History
Second day	Written Chinese (Kuo Wen)	Physics
Third day	Mathematics	Oral Chinese (Kuo Yu)

Applicants from accredited middle schools, upon recommendation of their principal, may take the examinations in English, Written and Oral Chinese only or in all subjects, depending on their standing in the class.

Students who have passed the examination conducted by the University of Hong Kong with a mark which qualifies for admission to that University, or those who hold certificates of the Senior Local Oxford or Cambridge examinations may be excused from the entrance examinations in such subjects as are covered by the certificate, except in Written and Oral Chinese.

Subjects of examination for candidates in the different departments and Colleges of the University are as follows:

Department the candidate expects to enter	Subjects in which the applicant will be examined							
	Oral Chin.	Written Chinese	Engl.	Mathematics			Hist.	Phys.
				Int. Alg.	Pl. Trig.	Solid Geom.		
Arts	+	+	+	+	+		+	
Economics	+	+	+	+	+		+	
Business	+	+	+	+	+		+	
Agriculture	+	+	+	+	+			+
Medicine	+	+	+	+	+	+		+
Science	+	+	+	+	+	+		+
Engineering	+	+	+	+	+	+		+

Entrance Conditions

Applicants who are deficient in certain subjects may be admitted with conditions and will be given an opportunity to remove such conditions. Special courses are offered in Chinese, English, Mathematics, History, and Physics to help these students reach the required standard.

Requirements for Admission with Advanced Standing

An applicant for admission with advanced standing must have a grade ratio above 5.0, or its equivalent; that is, his work in his previous college courses must have been of at least average grade.

Credentials as follows should be forwarded to the Registrar as early as possible:

1. An application-form properly filled out by the applicant.
2. A transcript giving details of all completed college courses, sent direct through the mail by the proper officer of the college last attended. If some courses are still under way, a supplementary transcript should be furnished as soon as possible. Without this final record, admission can be only provisional. If more than one college has been previously attended, a transcript from each college is necessary.
3. A personnel-form filled out by a responsible officer of the college last attended.

No transfer student is admitted to the Senior class.

Admission of Overseas Students

From its earliest days, Lingnan University has taken pride in the close and cordial relationship between itself and the Chinese communities abroad. The whole-hearted support of its Chinese friends from overseas has been a leading factor in the University's rapid development; and the University, for its part, has reciprocated by freely opening its halls to overseas students who wish to continue their studies in the homeland, and by offering these students an education combining the best fruits of both Chinese and Western culture.

Besides 200 boys of grammar and high school age in the lower Schools, the University has about seventy overseas students in the colleges. The group includes both men and women, and represents most of the larger Chinese communities in America, Canada, Cuba, Hawaii, the Philippines, the Straits Settlements, Australia, New Zealand, etc. The overseas group

participates actively in both the academic and the extra-curricular life of the University. There are overseas members in the glee clubs, in forensic and dramatic work, in such bodies as the International Relations Club, and in the various athletic teams.

High school graduates from abroad may be excused from entrance examinations. An overseas candidate who wishes to request exemption must send in his preliminary transcript sufficiently early for it to reach the Registrar not later than April 15 for the Fall semester, and not later than November 15 for the Spring semester. He will be considered for exemption from entrance examinations on two grounds: first, the standing of the high school attended, and second, the amount and quality of work done by the candidate. If the Registrar is not satisfied, he will require the usual examinations prescribed for candidates. He will also, of course, condition the candidate in any subject prerequisite to his proposed major in college but not presented by transcript.

Since overseas candidates are usually not sufficiently trained in Chinese to take up college work in it, they are permitted to defer fulfillment of the entrance requirement in Chinese language, literature and history.

As to science, ordinarily, three years of science (Biology, Chemistry, and Physics), are prescribed. If an overseas candidate presents three years of science, at least one of the courses should be a full laboratory course taken in one of the last two years, with laboratory note-books properly certified for submission to the Lingnan authorities. If the candidate intends to major in science, this laboratory course must be Physics; if he intends to major in arts, the course may be Biology, Chemistry or Physics.

An alternative science requirement is two years of science plus a general examination in practical scientific and mechanical knowledge. If this arrangement is chosen, at least one of the courses must be a laboratory course, Physics for intending science majors; Biology, Chemistry, or Physics for intending arts majors, taken in one of the last two years, with properly certified laboratory note-books. The general examination which supplements this two-year offering is designed to test the candidate in such applied scientific information as comes in the way of a person living in an industrial and mechanized civilization.

Since overseas students cannot graduate or receive the college degree without the knowledge of college Chinese, the University has organized a special program of Chinese studies for overseas college students, the completion of which will qualify them for graduation. This special program, as has been tested, is much more satisfactory than the usual method of tutoring or the simple method of organizing overseas sections. It is recognized that this change of policy goes a considerable way towards removing the more serious difficulties facing overseas students who wish to graduate. A general outline of the program is given below:

(1) Four years of special Chinese will be required of overseas students.

(2) The number of hours taught in each year is as follows;

1st year	9 hrs. (Lab. included)	For those who do not know any Chinese.
2nd year	9 hrs. (Lab. included)	
3rd year	9 hrs. (Lab. included)	
4th year	6 hrs. (Lab. included)	

(3) Overseas Chinese students who have completed the last year Chinese course and can pass the special examination which includes the part on composition of the College Chinese Entrance Examination may have regular College credits. The regulation governing the giving of credits is as follows;

- A.
- Those who start from the 1st year till completion of the 4th year Chinese— 12 credits
 - Those who start from the 2nd year till completion of the 4th year Chinese— 10 credits
 - Those who start from the 3rd year till completion of 4th year Chinese— 3 credits
 - Those who start from the 4th till the completion of it—6 credits
- B. Those who have not completed the last year will not receive any college credits.
- C. Those who have completed the last year overseas Chinese are not required to take 6 credits of the regular College Chinese.

(4) Overseas Chinese students must take the course "Chinese Civilization" offered for them in their 1st year entering the University. This is a 2 semester course, 3 hours each semester, total 6 credits.

(5) The 1st, 2nd, and 3rd year students, besides taking 9 hours of Chinese, can register for 10 credits of other courses. The 4th year students, besides 6 hours of Chinese, can register for 12 credits of other courses.

(6) An Examination Committee is appointed by the Dean of the College to give the Overseas Chinese examination. The committee may consist of the Chairman of Department of Chinese, the Registrar, instructors of Overseas Chinese courses and others whom the Dean may appoint.

High school graduates wishing to enter Lingnan may take the regular University of Hawaii Entrance Examination in Hawaii. Applications should be made to the Director of Admissions of the University of Hawaii on its regular entrance blank together with a doctor's certificate, five small photographs, and an application fee of one dollar U. S. Currency. Upon recommendation of the University of Hawaii as to admission or rejection,

based on the results of the University of Hawaii Entrance Examination and the high school record as submitted on the entrance blank, Lingnan will make the final decision of acceptance or rejection.

Accredited Schools

Schools with standards similar to those of the Middle School of Lingnan University may become accredited schools and may recommend their graduates for admission. The similarity of standards is determined partly by periodic inspection by a representative of Lingnan University, and partly by the records made by the recommended graduates in the entrance examinations and after admission.

Registration

All students must register in person. In general the procedure of registration is the same each year, but students should pay attention to announcements made by the office of the Registrar before and during the period of registration. On the day of registration, all new and old students must first get their registration forms and cards. They should next consult their advisers who will help them in selecting courses in their major field of study. New students will be given registration permits and assigned to advisers by the Registrar. After the enrollment cards have been filled out and signed by the advisers, they are taken to the Registrar for approval. The students will then go to the University Bank to pay their fees.

On going to classes for the first time, each student should show his enrollment card to his instructor. No student is permitted to attend classes without having been properly enrolled. In exceptional cases, students who are unable to pay all of their fees on time may be able to make an arrangement with the Dean of the University for later payment.

Students who have not completed registration within the regular registration period indicated in the Academic Calendar will pay a late registration fee of two dollars for each day, the maximum charge being ten dollars. No student, old or new, may register if he arrives more than ten days later than the first day of class work.

Change in Enrollment

After classes begin no changes in courses can be made by students except by permission of the Registrar, which will be given only in exceptional cases and for reasons that could not have been foreseen prior to the opening day of classes. Permission to enroll in courses is not given later than ten days after the date for the first classes in each semester. No change can be recognized until it has been entered on the student's enrollment card and endorsed by the Registrar. Any change of course not caused by the University is penalized with a fine of \$1.00 for each course.

No course may be dropped later than six weeks after the beginning of the semester except for reasons of ill-health and upon recommendation by the University physician. A course dropped later than this receives an arbitrary grade of 40. Freshmen in the first semester, however, whose work at mid-semester appears below standard in several subjects, may be permitted, with the consent of their adviser and the Registrar, to drop one subject without penalty. A student may be required to discontinue the study of a subject, if the instructor in charge is satisfied that by reason of lack of preparation he is not competent to continue it.

A student is permitted to transfer to another department or another college only once, and only by permission of the dean or the head of the department which he proposes to enter. His credits previously obtained are void except those that may be counted toward graduation according to the requirements of the prospective college or department.

Minimum Load

A student must do work amounting to at least fourteen credits each semester, except in case of illness or when he is doing outside work of a recognized character. When one or more courses are dropped on account of illness or for any other reason, a student may not remain in college with a minimum load of less than ten credits.

Classification

A student is ranked according to the number of credits he has secured and the quality of work done in securing that number of credits. A student whose entrance conditions amounts to more than ten hours a week is called a Special Student. A student with fewer than 25 credit-units is ranked as a Freshman. One who has been in residence a full year and has gained 25 credit-units is ranked as a Sophomore. Students who have obtained 70 credit-units are ranked as Juniors. Students with 100 or more credit-units are ranked as Seniors. An overseas student is ranked regardless of his standing in Chinese.

Program

At the time of entrance to the University, the student should choose one of the following fields of work in which he wishes to specialize during the rest of his college course:

College of Arts and Sciences:	General Arts
	General Science
	Business Administration
College of Agriculture:	Agriculture
College of Engineering:	Civil Engineering
College of Medicine:	Medicine

He should choose a major in his Sophomore year, and a minor in his Junior year. Throughout the four years, the student should follow strictly the program prescribed for him by his department. Entrance conditions must be removed in the first year.

Lower Division students may not enroll for Upper Division courses, except by special permission. Upper Division credits obtained by a Lower Division student count for Lower Division credits only. Upper Division students taking Lower Division courses need a grade of 70 to pass.

Admission to the Upper Division in any College is granted only to those students who have satisfactorily completed the Lower Division program in that College. The requirements for admission to the Upper Division are as follows:

1. The student must have no unremoved college entrance conditions.
2. He must have completed the Lower Division program.

Major and Minor

A minimum of 30 credits Upper Division credits in a specified field constitutes a major. A minimum of 12 Upper Division credits in a specified field constitutes a minor. Attention is called to the requirements for major and minor of different departments. The following majors and minors are now offered by the University:

College of Arts and Sciences:

Biology
 Business Administration
 Chemistry
 Chinese Literature
 Economics
 Education (offered as minor only)
 Government
 History
 Home Economics (offered as minor only)
 Physics
 Psychology (offered as minor only)
 Religion (offered as minor only)
 Mathematics (offered as minor only)
 Sociology
 Teaching of: (not offered as minor)
 Chinese Science
 English Social Science
 Western Literature

College of Agriculture:
 Animal Industry
 Plant Industry
 College of Engineering:
 Civil Engineering
 College of Medicine:
 Medicine

System of Marking in Courses

(Credits, Point Mark, Weighted Credits, Grade Ratio)

Credits

All academic work for which a student is duly enrolled is measured in terms of credits. Credits are allowed for courses (that is, for classes attended, with work completed and examinations passed) at the rate of one for each hour of lecture or recitation, or for each three hours (or, in certain cases, two hours) of laboratory work per week per semester. Fractional credits are not granted.

Passing Mark for Courses

Teacher's marks are reported on a percent basis, with 60 as the passing mark in all colleges.

Point Mark

Teachers' marks are transmuted in the Registrar's Office according to the following table of equivalents:

Point Mark	Percent	Point Mark	Percent
10 for	95 & above	4 for	65 to 69
9	90 to 94	3	60 to 64
8	85 to 89	2	55 to 59
7	80 to 84	1	50 to 54
6	75 to 79	0	below 50
5	70 to 74		

Weighted Credits

A student's total earned *weighted credits* for any course shall be the product of the number of credits in that course and the point mark attained; thus

$$\text{point mark} \times \text{credits} = \text{weighted credits}$$

Grade Ratio

A student's grade ratio, which is used to determine his academic efficiency, is the quotient obtained by dividing the total weighted credits by the total enrolled credits.

$$\frac{\text{total weighted credits}}{\text{total enrolled credits}} = \text{grade ratio}$$

Application of Grade Ratio*Disqualification*

A student attaining a grade ratio of less than 3.0 in any semester is automatically disqualified and dropped from the rolls.

A student attaining a grade ratio which under these regulations requires that he be put on probation a second time shall be automatically disqualified.

Probation

A student with a grade ratio of less than 4.0 in any semester shall be put on probation and allowed to enroll for not more than 14 credits the following semester, such student to be automatically disqualified if his grade ratio at the end of the semester of probation is less than 5.0.

A student with a grade ratio of less than 5.0 in any semester may enroll for not more than 16 credits the following semester, and in that semester he must attain a ratio of 5.0 or better, failing which he shall be put on probation.

Grade Ratio of 5.0 to 8.0

A student with a grade ratio between 5.0 and 8.0 in any semester shall be allowed to enroll for 18 or 19 credits in the following semester.

Grade Ratio above 8.0

A student with a grade ratio above 8.0 may enroll for a maximum of 21 credits.

Re-admission of Disqualified Students*Re-admission of Disqualified Students*

Re-admission of disqualified students shall in no case be sooner than after the lapse of one semester, and action on all applications shall be decided at the discretion of the Committee on Student Standing.

Re-examinations & Deferred Examinations

No re-examinations are given for failure in courses. When students have been unavoidably absent from a final examination on account of illness duly attested by the University physician, or for some other reason of equal validity as judged by the Registrar and Dean, such students may be allowed to take a deferred examination. Such deferred examinations must be passed within the prescribed period at the beginning of the next semester or the mark will be entered as failure. A fee of \$3.00 national currency is charged for each deferred examination.

Thesis

A candidate for the Bachelor's Degree must submit for approval the subject of his thesis to the head of his department within one month after the opening of the year in which he expects to receive the degree. He must submit for approval the table of contents of his thesis to the head of his department within two months after approval of his subject. He must submit for approval two copies to the head of his department three weeks prior to Commencement. A third copy may be required by the department. Detailed regulations concerning the form of the thesis may be had from the office of the Registrar.

A student who has not been able to complete his thesis work in time, and is granted permission by his Head of Department to continue with the work the following semester, must register for thesis.

Graduation and Degrees

CREDIT. In order to qualify for graduation from the College of Arts and Sciences, College of Agriculture, or the College of Engineering, and for the degree of Bachelor of Arts or Science, the candidate must complete the curriculum specified in one department or field. Seventy credit-units are required in major, minor, and electives in the Upper Division, making a total of 140 credit-units in the case of the Colleges of Arts and Sciences, and Agriculture, and 183 credit-units in the College of Engineering, for graduation for students entering in September 1938.

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. The college course is normally four years.

MILITARY AND PHYSICAL TRAINING. Men and women candidates must satisfy the government requirements in military training and in physical training.

APPROVAL BY THE NATIONAL MINISTRY OF EDUCATION. Certificates of candidates recommended by the respective Colleges will be forwarded by the President and Board of Directors to the Ministry of Education at Nanking for approval. The Ministry grants the appropriate degree. The fee for Government approval is \$1.00 National Currency. The Ministry approves the following bachelor degrees:

AGRICULTURE MAJORS	{ Bachelor of Science in Agriculture (農學士).
ARTS MAJORS	{ Bachelor of Arts (文學士).
BUSINESS MAJOR	{ Bachelor of Arts in Business Administration (商學士)

ENGINEERING MAJOR	} Bachelor of Science in Engineering (工學士),
SCIENCE MAJORS		} Bachelor of Science (理學士).

REGENTS DEGREES. The American Foundation holds a charter from the Regents of the University of the State of New York for conferring the degree of Bachelor of Arts and the degree of Bachelor of Science. Candidates for either degree must be recommended by a special committee to the Trustees of Lingnan University in New York City. The charter has been amended to include the granting of the advanced degrees of Master of Arts and Master of Science.

TIME OF AWARD. The degree is conferred upon a successful candidate at the Commencement next following the completion of his course of study and fulfillment of his other requirements. The degree may be given in absentia only in cases of necessity, and by special action.

MEDICAL DEGREE. The degree of M. B. (醫學士) for graduates of the Medical College is granted in accordance with the six year curriculum prescribed by the Ministry of Education of the National Government.

Graduate Institute of Natural Sciences

The Lingnan Graduate Institute of Natural Sciences (理科研究所) has facilities for graduate students in Biology, Chemistry, and Physics research leading to the degree of Master of Science. A limited number of teaching fellowships is available. The regulations for admission to graduate standing may be obtained on application to the Director of the Graduate Institute.

Graduate Standing Abroad

Students who wish to pursue professional or graduate study elsewhere are given complete and detailed transcripts of the work done at this University and an effort is made to secure for them proper standing at the school to which they go. Ordinarily they may transfer to American universities without loss of standing. (Students who have not graduated may expect to lose standing if they transfer).

Graduates of Lingnan University, upon presentation of a degree diploma and transcript of academic record, are admitted, on recommendation of the Dean, without examination, into the graduate schools of many of the leading universities in America on substantially the same basis as graduates of accredited colleges and universities in the United States.

Graduates of Lingnan University holding either the B. A. or B. S. degree are entitled to credit for one year's remission in the study of law for admission to the Bar examination in New York State.

Fees and Expenses

All fees are stated in national dollars (國幣). All fees must be paid before permission is given to attend classes, except in those cases in which satisfactory arrangements have been made with the Dean of the University for the deferring of a part of the payment.

Regular Fees

	First Semester	Second Semester	Year
*Tuition, about	\$81.00	\$81.00	\$162.00
Quarters (room, etc.)	30.00	30.00	60.00
Incidentals	20.00	20.00	40.00
Board	38.40	38.40	76.80
Medical Fee	5.00	5.00	10.00
General Student Union	1.00	1.00	2.00
College Student Union	3.00	3.00	6.00
Athletic Association	1.00	1.00	2.00

DEPOSITS

Guarantee (at time of matriculation)	\$20.00
Dormitory Room Key (whenever a key is applied for)	4.00

OCCASIONAL FEES

Matriculation (payable on application for admission to college)	\$1.00
Laboratory (for each science lab.)	5.00-10.00
Military Uniform (payable at first enrollment)	12.00
Transcript (for each transcript after the first)	2.00
Government's charge for approval of graduation certificate	1.00
Degree diploma (payable in last semester before graduation), about	7.00

SPECIAL FEES

Deferred Examinations, each subject	\$3.00
Delinquency (lateness in paying fees, registration, or taking up residence), each day \$2.00, maximum	10.00

*Tuition in all the Colleges is charged on the basis of \$4.50 per credit. Regular and part-time students pay at the same rate. Special students are charged \$180.00 per year. Students who are taking sub-collegiate courses in the special class to remove conditions also pay at the rate of \$4.50 for each period of sub-collegiate work. As the normal load for which a student enrolls is 18 credits the normal amount is \$81.00 each semester. Tuition in special courses in Chinese for overseas students is \$30 per course.

Laboratory fees are charged in the science courses which have laboratory work. The fees for these courses are indicated in the descriptions of the courses. Students are, however, required to pay for articles (except ordinary chemicals) consumed or broken in the laboratories.

System of Numbering Courses

All the Colleges designate courses of study for college students by the name of the subject or field of work to which the course belongs, and a number, e. g., Biology 2. Courses numbered from 1 to 20 are open to Freshmen and Sophomores; those numbered from 11 to 20 are courses required of Sophomores in that year; those numbered from 21 to 50 are elective for Sophomores, but may be taken by Upper Division students with the approval of their advisors, for credit in the Upper Division; those numbered from 51 to 99 are open only to Upper Division students. Courses numbered from 101 onward are graduate courses. Courses numbered from 1 to 20 may not be taken for credit by Upper Division students without specific faculty action. Courses designated by the small letters *a-b* following the course number, e. g., English 1 *a-b*, are year courses, 1*a* being given the first semester. The work of both semesters of a year course must be completed satisfactorily before credit can be counted towards a degree or a certificate, or can be recorded on a transcript. Courses designated by capital letters, without a number, are sub-collegiate courses, and may not be offered for credit towards the degree. Numbers in parentheses following the course number are old numbers of the courses.

Financial Aid for Students

The University recognizes that many very deserving students are unable for a variety of reasons to pay the full cost of their fees and other expenses. It therefore tries to aid such students as much as it can from scholarship funds and by employing a large number to do work part time for the University for generous stipends.

Awards of aid are made for the full academic year with the understanding that aid will not be continued the second semester unless the student has maintained his scholastic standing and contributed to the orderly administration of the institution.

Friends who are interested in assisting individual students are invited to give to the Scholarship Funds of the University, in the form either of endowment or of annual gifts.

Funded Scholarships

The following permanent scholarships have been assured by generous gifts of varying amounts:

Tan Yew-Fun Scholarship

Given in memory of Tan Yew-Fun by friends through Miss Sarah Carrington.

Martin Scholarship

Given by Mrs. Henry Martin in 1907 in memory of her husband.

S. G. B. Cook Scholarship

Given by Mrs. S. G. B. Cook in 1910.

Knipp Scholarship

Given in 1911 by Mrs. Julia Knipp, Charles J. Knipp, Frank K. Knipp, Walter Knipp, and A. R. Knipp.

C. T. Bagby Scholarship

Given by Mr. C. T. Bagby in 1913.

Edmunds Scholarship

Given in 1913 in memory of Mr. and Mrs. James R. Edmunds, by their children, Charles K. Edmunds, James R. Edmunds, Jr., Mrs. H. F. Perkins, and Mrs. C. C. Rutledge.

Wilson Longstreth Smith Scholarship

Given in 1917 by Mrs. W. L. Smith, in memory of her husband.

Laird Scholarship

Given in 1922 in memory of their parents, by Mrs. Julian Millard, Warren P. Laird, Robert H. Laird, Frank J. Laird, and Clinton N. Laird.

Class of 1923 Scholarship

Given by the students who received their one-year Junior Certificate in 1920.

Chue Pik-Tung Scholarship

Given by Mr. Chue Pik-Tung (朱璧東) of Canton to be awarded to a student in the College of Agriculture.

Kaan Yan-Choh Scholarships

An endowment created by Mr. Kaan (簡寅初) in his will from the income of which six to eight awards may be made annually.

Knipp Memorial Press Fund

Income derived from the use of the Knipp Memorial Press presented by Mrs. Julia C. Knipp, Charles J. Knipp, Frank K. Knipp, Walter Knipp, and A. R. Knipp.

Tsui Kam-Tong Scholarships

In memory of Mr. Tsui Kam-Tong, a student of Lingnan in its early days (1905-8), whose library was transferred to the University after his death, two scholarships have been established.

University Scholarships

By action of the Board of Directors on September 26, 1936, thirty-three scholarship (免費) of \$160 National Currency each and six scholarships (公費) of \$250 National Currency each will be granted annually to deserving new and old students who need financial aid and who show high scholastic qualifications.

Scholarships for Exchange Students

Twenty scholarships are offered to Exchange students from America for the academic year 1937-1938.

Scholarships for Divinity Students

Scholarships are available for qualified students who are preparing for the ministry.

Liang Sze-Yi Scholarships

Trustees of a large fund left by Mr. Liang Sze-Yi (梁士詒) for the promotion of education in agriculture gave two students of Lingnan University in 1934 scholarships of the annual value of \$400 National Currency tenable for four years.

Student Employment

Many students every year find employment for about ten hours a week in various departments of the Colleges. Typists are in particular demand. Persons willing to earn a portion of their expenses by such part time employment or by half time employment during the vacations may thereby show their eligibility for scholarship aid. Those most successful in their studies will receive preference in both scholarship grants and assignment of remunerative work. Inquiries should be made of the Student Aid Committee.

Honor Certificates and Prizes

A student who maintains an exceptionally high standing may be declared an honor student and may receive an Honor Certificate at the commencement exercises of the year. The number of such honor students in each College may not exceed five per cent 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, nonscholastic activities, and personal character.

Prizes Open to All College Students

Prizes of the value indicated, which are named below, are awarded annually to collegiate students of the University, students in any of the colleges being eligible.

1. PUBLICATIONS PRIZE. (value \$20.00 National Currency) to the student in the College of Arts and Sciences, or the College of Engineering, whose published writings in Chinese, of any description, are accounted of the highest merit.
2. SCHAUFFLER PRIZE IN
REQUIRED ENGLISH, (value, \$10.00 National Currency), for the best work during the year in required English courses.
ELECTIVE ENGLISH, (value, \$10.00 National Currency), for the best work during the year in elective English courses.
3. COLES MATHEMATICS PRIZE, (value, \$15.00 National Currency) to the student whose work in Mathematics is accounted most meritorious.
4. COLES SCIENCE PRIZE, (value, \$15.00 National Currency), to the student whose work in Natural Science is accounted most meritorious.
5. ATHLETICS PRIZE, (value, \$10.00 National Currency), for conspicuous contributions to the promotion of college athletics.

Prizes in the College of Arts and Sciences

1. HONOR PRIZE, (value, \$20.00 National Currency), to the student whose scholarship and general conduct are accounted of the highest merit.
2. EDUCATION PRIZE, (value, \$10.00 National Currency) to a Senior on the basis of scholarship and professional promise.
3. ACCOUNTING PRIZE, (value, \$10.00 National Currency), is awarded annually to the student whose work in Accounting is considered most meritorious.
4. BUSINESS ADMINISTRATION PRIZE, (value, \$10.00 National Currency) is awarded to the student whose work in Business Administration is considered most meritorious.
5. TO SHUE FAN PHYSICS PRIZE, (value, \$10.00 National Currency) is awarded to the student whose work in Physics is considered most meritorious.
6. BIOLOGY PRIZE, (value, \$10.00 National Currency), is awarded to the student whose work in Biology is considered most meritorious.

7. CHEMISTRY PRIZE, (value, \$10.00 National Currency) is awarded to the student whose work in Chemistry is considered most meritorious.
8. GOVERNMENT PRIZE, (value, \$10.00 National Currency), is awarded to the student whose work in Government is considered most meritorious,
9. SOCIOLOGY PRIZE, (value, \$10.00 National Currency), is awarded to the student whose work in Sociology is considered most meritorious.
10. HISTORY PRIZE, (value, \$10.00 National Currency), is awarded to the student whose work in History is considered most meritorious.
11. CHINESE PRIZE, (value, \$10.00 National Currency), is awarded to the student whose work in Chinese is considered most meritorious.

Prizes in the College of Agriculture

1. HONOR PRIZE, (value, \$20.00 National Currency), awarded annually to the student who ranks highest in scholarship, deportment and attendance.
2. PUBLICATIONS PRIZE, (value, \$20.00 National Currency), awarded to the student whose published writings in Chinese of an agricultural nature are accounted of the highest merit.
3. PUBLICATIONS PRIZE, (value, \$20.00 National Currency), awarded to the student whose published writings, either in Chinese or English, on the subject of Sericulture are accounted of the highest merit.

Prizes in the College of Engineering

1. HONOR PRIZE, (value, \$20.00 National Currency), awarded annually to the student who ranks highest in scholarship, deportment and attendance.
2. SURVEY PRIZE, (value, \$15.00 National Currency), to the student whose work in Surveying is accounted most meritorious.
3. RE-ENFORCED CONCRETE BUILDING PRIZE, (value, \$15.00 National Currency), to the student whose work in Re-enforced Concrete Building is accounted most meritorious.
4. RAILWAY ENGINEERING PRIZE, (value, \$15.00 National Currency) to the student whose work in Railway Engineering is accounted most meritorious.

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF ARTS AND SCIENCES is the senior and largest college of Lingnan University. Therefore, much of the material in earlier pages is descriptive of this college in a special way, and little more needs to be added here.

This College gives the broad foundation for those who want a liberal education before they go into such professions as law, journalism, political service, social service, or the ministry. Specific training is offered in preparation for those who plan to teach or to concentrate on a natural science. Attention is called in the descriptive paragraphs under each department or subject to the particular fields or professions for which a major in that department specializes.

Through the sharp separation of the work into Lower and Upper Divisions it is possible to give in the Lower Division the courses which are required of all students or which are required of those who are primarily interested in the general fields of Arts or of the Sciences, and to insist on a great measure of specialization in the Upper Division on some subject which the student chooses as his "major."

Freshmen courses are arranged in four programs for those who will later major in (1) a field in the Social Sciences, (2) Business or Economics, (3) Chinese or English, or (4) a field in the Natural Sciences. The Freshman programs for the different fields are exhibited on the next page.

In the Sophomore year the students have programs specified by the department of their major, as given under the appropriate subjects in later pages of this catalogue. These programs include certain required courses, other courses which are prerequisite to their future Upper Division major, and, often, an elective. Those courses which are listed on the Sophomore programs as prerequisites for Upper Division majors (e. g., Education 21, Chinese Literature 22, and Biology 21) may not be included in making up the number of credits required for that Upper Division major. However, they may be counted towards a minor in that subject or department.

The Upper Division program is specified by the department of the student's major, and in general requires in the two years from 30 to 36 credits in the major, 12 credits in a minor, and from 28 to 22 credits in approved electives. This program specifies the requirements for a degree in that major or department. No one can qualify for a degree from the College of Arts and Sciences without meeting the requirements of some one of the majors listed in the following pages.

All students in certain majors are required to take at least one course in Chinese Literature while they are in the Upper Division. Students majoring in either Chinese Literature or Western Literature are required

to study French (or German), and students who are planning to teach a specified subject must take courses in Psychology and Education. The time devoted to French (or German) and Education reduces the time available for approved electives.

Exhibit of Freshman Programs

Subjects	Majors in Social Sciences		Majors in Bus. or Econ.		Majors in Chinese or Engl.		Majors in Natural Sciences	
	Semester I	Semester II	Semester I	Semester II	Semester I	Semester II	Semester I	Semester II
Biology 2-3							(4)	(4)
Chemistry 1a-b							5	5
Chinese 1a-b	3	3	3	3	3	3		
Economics 10a-b	3	3	3	3	(3)	(3)		
English 1a-b	4	4	4	4	4	4	4	4
* Government 2	+	+	+	+	+	+	+	+
Govt. 5, Soc. 22	4	4	4	4	(4)	(4)		
History 2a-b	3	3	3	3	(3)	(3)		
Science Survey					4	4		
Mathematics 3a-b							4	4
Military Training	+	+	+	+	+	+	+	+
Physics 4a-b							(4)	(4)
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Total credits	17 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$ -18 $\frac{1}{2}$	17 $\frac{1}{2}$ -18 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$

* Party Principles and Military Training are required for graduation but are not given academic credits.

Students with a major in Chinese or English choose two of the three Social Science groups: Economics 10a-b, Government 5-Sociology 22, or History 2-ab.

Science students planning to major in Biology should take Biology 2-3 while those planning to major in Chemistry or Physics should take Physics 4a-b in the Freshman year.

Students planning to study medicine should refer to the Medical College curriculum.

Biology

Professors H. T. Chen, Hoffmann, McClure, Metcalf, Wallace, and Roberta Ma;

Miss L. Y. Ng, Mr. Li Lai Yung, and Miss Lo Yuen Hing.

THE DEPARTMENT OF BIOLOGY is well equipped for teaching and carrying on research work in theoretical and applied biology in its several phases, namely, Economic Botany, Systematic Botany, Entomology, Parasitology, and fundamental courses in Botany and Zoology.

At the present time the Department occupies the third floor and part of the attic of the Willard Straight Science Hall, which accommodates five laboratories, one lecture room, one preparation room, two stockrooms, one animal room, one research laboratory for graduate students, one dark room, one store room, one roof green-house, and a number of private research laboratories for the staff members of the Department.

In addition to gas, water, and electricity in all the laboratories and research rooms, the Department is equipped with a large number of student compound microscopes, research compound microscopes, Greenough binoculars, dissecting microscopes, sliding and rotary microtomes, embedding tables, incubators, Arnold sterilizer, autoclave, hot air sterilizer, insect drying oven, epidiascope, Edinger apparatus, cameras, microscope lamps, slide cabinets, unit-type cabinets, furniture especially designed for this laboratory, animal and plant models, charts, etc. More equipment is being added from time to time. We aim to have facilities in this Department ample for both teaching purposes and for investigation work.

The library includes the publications of the United States National Museum, the Carnegie Institution of Washington, the United States Department of Agriculture and other scientific institutions, as well as standard reference books and files and current numbers of many leading biological periodicals. *The Lingnan Science Journal*, published by the University, offers a splendid opportunity for the early publication of original work performed by staff and students of the Department.

The Department aims to prepare students to go into Medicine, Agriculture, and advanced work in Botany and Zoology. Therefore, some courses are offered primarily for agricultural and medical students, while a few others are primarily for students who wish to specialize in Biology.

The Department has been officially authorized by the Ministry of Education to offer graduate work leading to the degree of Master of Science and admits each year a limited number of qualified students who have obtained their Bachelor's degrees from this University or other institutions of equal standing. Facilities are now available in the following fields, namely, Economic Botany, Systematic Botany, Entomology, Parasitology, and Invertebrate Zoology. Those who are interested in the graduate work may write to the Graduate Institute of Natural Sciences for further information.

Each undergraduate student prepares, at the regular time for advanced registration prior to the beginning of his Junior year, a program showing his preparation in the Lower Division and the courses he plans to take in the Upper Division. This must be approved by his adviser. Besides the courses in Biology specified for his major (as listed in the following paragraphs), the program shows elective courses chosen in Biology and some related field or occasionally in some general cultural

subject. Each student majoring in Biology is required to present for graduation, in addition to specified courses in Biology in the Lower Division, at least 30 credits in Biology and 12 credits in a related field taken as a minor (42 credits in major and minor) in the Upper Division.

Those stressing Zoology should include Biology 21, 22, 23, 24, 31, 47, 53, 70, 75, and 77 in their programs.

Two tabular exhibits are given below for all students majoring in Biology. Students preparing for medicine should include Biology 21, 22, 24, and 47 without fail; Biology 23, 70, and 75 are desirable and Biology 31, 55, and 77 can be included to advantage.

The Freshman year program, given on page 50, is prerequisite for all later special work in Biology, except the single course Biology 29 (Insects in Relation to Disease), for which Science Survey may serve as prerequisite. The program for the three later years is the following:

Program for the Major in Biology

EMPHASIS ON ZOOLOGY

SEMESTER I		SEMESTER II	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
II	Biology 21 Chemistry 12a Chinese 1a Physics 4a Econ. 10a or Hist. 2a Physics Education	Biology 22 Chemistry 12b Chinese 1b Physics 4b Econ. 10b or Hist. 2b Physical Education	4 4 3 4 3 $\frac{1}{2}$
	18½		19½
III	Biology 23 Biology 47 Biology 75 Minor	Biology 24 Biology 53 Biology 70 Minor	4 4 4 6
	18		18
IV	Biology 31 Biology 77 Biology 99a German or French 21a Electives	Biology 32/60 Biology 99b German or French 21b Electives	4 2 4 8
	18		18

EMPHASIS ON BOTANY

SEMESTER I		SEMESTER II	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
II	Biology 31 Chemistry 12a Chinese 1a Physics 4a Econ. 10a or Hist. 2a Physical Education	Biology 32 Chemistry 12b Chinese 1b Physics 4b Econ. 10b or Hist. 2b Physical Education	4 4 3 4 3 $\frac{1}{2}$
	18½		18½
III	Biology 65 Biology 47 Biology 22 or 75 Minor	Biology 60 Biology 21 or 53 Biology 70 Minor	4 4 4 6
	18		18
IV	Biology 77 Biology 99a German or French 21a Electives	Biology 99b German or French 21b Electives	2 4 12
	18		18

2. ZOOLOGY (動物學). The fundamental principles of Zoology as illustrated by local fauna are studied. A general survey of the different phyla and a morphologic study of typical representatives in each; principles of genetics, evolution, histology, embryology, physiology. In the vertebrates, special emphasis is laid on the study of the frog. Prerequisite for all other courses in Biology except Biology 29. Laboratory fee, \$7.00. Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

3. BOTANY (植物學). A course in elementary Botany giving a general survey of the botanical field and a foundation for more advanced courses in Botany. Gross structure of plants and plant parts, function of plant parts, respiration, photosynthesis, transpiration, pollenization, fertilization, reproduction, ecological relations, and taxonomy. Prerequisite for all other courses in Biology except Biology 29. Laboratory fee, \$7.00. Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

21 (24). INVERTEBRATE ZOOLOGY (無脊椎動物學). A study of the distribution, life history, habits, anatomy, and classification of the local forms of invertebrates. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00. Classroom 2 hours, laboratory 4 hours, field work 2 hours (4 credits); one semester.

22 (21). VERTEBRATE ZOOLOGY (脊椎動物學). A survey of the origin, development, physiology, and ecology of the vertebrates. In the laboratory a comparative study is made of the anatomy of a local fish, amphibian, and mammal with special emphasis on the latter. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.

Classroom 3 hours, laboratory 6 hours (5 credits); one semester.

23. ANIMAL HISTOLOGY (動物組織學). A microscopic study of vertebrate tissue and organs. Prerequisite: Biology 22. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); two semesters.

24 (22). VERTEBRATE EMBRYOLOGY (脊椎動物胚胎學). An introduction to the methods of individual development as illustrated by an amphibian, chick, and mammal. Should be preceded or accompanied by Biology 22. Prerequisite: Biology 21. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

26. ORNITHOLOGY(鳥類學). A survey of the major groups of birds, with training in the identification of local birds. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.
Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

29. INSECTS IN RELATION TO DISEASE (醫用昆蟲學). A study of insects in relation to human health and diseases of domestic animals. Prerequisites: Science Survey or Biology 2 and 3.
3 hours; one semester.

31. PLANT MORPHOLOGY (植物形態學). This course familiarizes the student with the great groups of the plant kingdom, the characters peculiar to each, and the advances made by each succeeding group. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

32. PLANT PHYSIOLOGY (植物生理學). The emphasis is placed upon laboratory work with plants, supplemented by classroom discussion and reading assignments. Physiological processes of nutrition, growth, and reproduction. Prerequisites: Biology 2 and 3, Chemistry 1. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

47. GENETICS (遺傳學). A study of the laws by which characteristics of living organisms are inherited from one generation to another. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 3 hours (3 credits); one semester.

51. GENERAL ENTOMOLOGY (普通昆蟲學). A study of the Hexapoda, prefaced by a consideration of related Arthropoda. Morphology, taxonomy, biology and ecology of insects. Collection and preservation technique. Open by special arrangement to Sophomores. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours, field work 3 hours (5 credits); one semester.

52. APPLIED ENTOMOLOGY (實用昆蟲學). Special taxonomy, biology, and ecology of economic insects; insectary and practical field work collection; preservation and identification of representative forms of this locality; history of economic entomology and entomological literature. Prerequisite: Biology 51. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours, field work 3 hours (5 credits); one semester.

53. INTRODUCTION TO ENTOMOLOGY (昆蟲學概論). A survey of general and economic entomology with emphasis on the practical phases, especially as they relate to Kwangtung Province. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours, (4 credits); one semester.

55 (28). ANIMAL PHYSIOLOGY (動物生理學). A study of the normal functions of the animal body and their underlying principles. Laboratory work is emphasized. Prerequisites: Biology 22 and Chemistry 1a-b. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

60 (34). SYSTEMATIC BOTANY (植物分類學). Classification of the higher plants. Gymnosperms and Angiosperms. Largest and most characteristic families of flowering plants and the commonest plants of the local spring flora; descriptive terminology; collecting, pressing, drying, and mounting plants. Prerequisites: Biology 2 and 3. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

61. SYSTEMATIC BOTANY (植物分類學) A continuation of the spring term course with special emphasis on the Pteridophytes and the fall flora. Prerequisite: Biology 60. Lab. fee, \$5.00.
Laboratory 6 hours (2 credits); one semester.

65 (35). ECONOMIC BOTANY (實用植物學). Economic plants are studied from the ecological and historical point of view, emphasizing the influence of various factors upon the distribution of cultivated plants and the consequent influences upon the human race. Prerequisite: Biology 60. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

70 (44). GENERAL BACTERIOLOGY (微菌學概論). An introduction to the study of bacteria and their relation to and effects upon other living organisms, with emphasis on cultural and staining methods. Elective for Seniors but open by special consent to Juniors. Prerequisites: Biology 2 and 3, Chemistry 1. Lab. fee, \$5.00.
Classroom 2 hour, laboratory 6 hours (4 credits); one semester.

72. PLANT PATHOLOGY (植物病理學). A consideration of the bacteria and fungi which attack cultivated crops, as well as other causes of plant diseases. Prerequisites: Biology 60 and 70. Lab. fee, \$5.00.
Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

75. ANIMAL PARASITOLOGY (動物寄生學). A study of the principal protozoan, helminth, and insect parasites of man and other animals. Frequent visits to local slaughter houses. Emphasis on morphology, life history, diagnostic methods, and geographical distribution. Prerequisites: At least 15 credits in Biology including Biology 24 or 51. Lab. fee, \$5.00.
Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

77. (41). MICROTECHNIQUE (微物技術). Training in the methods of preparing plant and animal material for microscopic study. Prerequisites: Biology 22, 23, and 31. Lab. fee, \$5.00.

Laboratory 6 hours (2 credits); one semester.

96. SPECIAL PROBLEMS (專題研究). Individual research work for advanced students under supervision of an instructor; offered each semester and during the summer. Each student attempts a different problem. Credit is given only when the work is sufficiently accurate and complete to warrant publication. Open only to students who have shown special ability. Prerequisite: 20 credits in Biology.

Number of hours and credits dependent on the problem selected.

99 a-b. THESIS (畢業論文). Research work on some special problem selected by a Senior student and approved by an instructor who supervises the investigation. Required of all Seniors majoring in Biology.

Laboratory 6 hours (2 credits); two semesters.

Courses Primarily for Graduate Students

110. ADVANCED SYSTEMATIC BOTANY (高級植物分類學). A course for the student who wishes to specialize in Taxonomy. Besides an intensive study of the local flora, the student is introduced to the literature on Chinese plants, informed of the technical problems of nomenclature, and trained in how to prepare a revision of a flora for publication and how to organize and develop local exploration: discussion of herbarium methods and exchanges. Prerequisite: Graduate standing in Biology, including Biology 60.

Classroom 2 hours, laboratory and field 3 hours (3 credits); one semester.

113. EXTERNAL MORPHOLOGY OF INSECTS (昆蟲外部形態學). A detailed study of the external anatomy of a few common representative insect types. Prerequisite: Graduate standing, including Biology 53.

3 credits; one semester.

115. TAXONOMY OF INSECTS (昆蟲分類學). General principles of and practice in the classification of insects with later stress on the groups of agricultural importance or those affecting the health of man, as selected. Prerequisite: Graduate standing, including Biology 53.

3 credits; one semester.

117. ADVANCED ECONOMIC BOTANY (高級實用植物學). A study of economic plants from other parts of the world promising for introduction and trial in China. Attention will be given to the botanical characters, the phases of usefulness, and ecological requirements. Prerequisite: Graduate standing, including Biology 65.

Classroom 1 hour, laboratory 6 hours; one semester.

120 a-b. ADVANCED PARASITOLOGY (高級寄生蟲學). Laboratory, field, and library work. An introduction to the important parasitic groups and an intensive study of a limited problem of parasitism of local animals, selected in consultation with the instructor. Prerequisite: Graduate standing, including Biology 75.

3 credits; one semester.

125 a-b. SYSTEMATIC VERTEBRATE ZOOLOGY (脊椎動物分類學). A study of literature sources and methods used in systematic vertebrate zoology; intensive work on local fish and amphibians from fresh and tidal waters. Field work on distribution and life history of these forms. Prerequisite: Graduate standing, including Biology 22.

Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

130. ADVANCED BIOLOGY (理論生物學). A comprehensive lecture course on one of the following subjects: Cytology, Immunology, Insect Ecology, Organic Evolution, Plant Geography. Only one subject is given each semester. Students may repeat the course and receive credit as long as the subject matter is different. Permission of the instructor in charge each semester is necessary for admission to the course. No laboratory work. Prerequisite: Graduate standing.

2-3 credits; one semester.

138. RESEARCH (專題研究). A problem taken in one of the following fields: Economic Botany, Entomology, Parasitology, Systematic Botany, and Systematic Invertebrate and Vertebrate Zoology, by a qualified student under the supervision of an instructor.

Number of hours and credits dependent on the problem selected.

140. BIOLOGY SEMINAR (生物學討論組). Reports and discussion of current biological topics by staff members and graduate students. Required of all graduate students.

No credits; two semesters.

The Department of Business Administration

Professors Kwok, Sieux, Ma, and Seto; Mr. T. K. Lo.

MODERN CHINA is demanding men trained in the theory and practice of business as it is carried on not only in China but in other countries as well. A knowledge of accounting, statistics, labor problems, business law, 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 the proper direction and intelligent control of the modern industrial system now developing in China. The well trained business man of to-day also needs a thorough acquaintance with professional technique and underlying principles. In addition, if he is to meet adequately the duties of executive responsibility and civic leadership, his calling requires the broad outlook and liberal understanding to be gained from a knowledge of sociology, history, political science, psychology, and other fundamental arts and sciences.

The Department of Business Administration has arranged its courses under two sections: I. Business Administration; II. Economics. This separates, in a general way, theoretical from applied subjects. Certain courses are elective. Aside from the prescribed courses of study, the student may, with the approval of his adviser and the professor in charge, choose his electives from either of the two sections or from courses offered in one of the other Colleges.

The University and private libraries on the campus furnish a large amount of well selected material for economic and business study. Files and current numbers of *The American Economic Review*, *The Annalist*, *Annals of the American Academy*, *Banker's Magazine*, *Chinese Social and Political Science Review*, *Economic Journal*, *Harvard Business Review*, *Journal of Accounting*, *Journal of the American Statistical Association*, *Journal of Economics*, *Management and Administration Quarterly*, *Journal of Economics*, *Printer's Ink*, *System*, *Trans-Pacific*, and other similar periodicals are available. In some cases the files are complete. The nearby cities of Canton and Hongkong afford unusual opportunities for studies of modern business and economic problems.

Program for the Major in Business Administration

FRESHMAN YEAR			
1st TERM		2nd TERM	
COURSES	CREDITS	COURSES	CREDITS
Chinese 1a	3	Chinese 1b	3
English 1a	4	English 1b	4
Economics 10a	3	Economics 10b	3
Government 5	4	Sociology 22	4
History 2a	3	History 2b	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<u>17$\frac{1}{2}$</u>		<u>17$\frac{1}{2}$</u>
SOPHOMORE YEAR			
Business Administration 5a	4	Business Administration 5b	4
English 21a	3	English 21b	3
Business Administration 26a	3	Business Administration 26b	3
Science Survey	4	Science Survey	4
Electives	3-4	Electives	3-4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<u>17$\frac{1}{2}$-18$\frac{1}{2}$</u>		<u>17$\frac{1}{2}$-18$\frac{1}{2}$</u>
JUNIOR YEAR			
Business Administration 15a	5	Business Administration 15b	5
Business Administration 59a	3	Business Administration 59b	3
Business Administration 58	3	Business Administration 58b	3
Business Administration 62	3	Business Administration 54	3
Electives	4	Psychology 44	3
	<u>18</u>	Electives	1
			<u>18</u>

SENIOR YEAR			
1st TERM		2nd TERM	
COURSES	CREDITS	COURSES	FREDITS
Business Administration 57a	2	Business Administration 57b	3
Business Administration 85a	3	Business Administration 85b	3
Business Administration 50	3	Business Administration 99b	2
Business Administration 99a	2	Electives	10
Electives	8		<u>18</u>
	<u>18</u>		

Program for the Major in Economics

FRESHMAN YEAR			
Chinese 1a	3	Chinese 1b	3
English 1a	4	English 1b	4
Economics 10a	3	Economics 10b	3
Government 5	4	Sociology 22	4
History 2a	3	History 2b	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<u>17$\frac{1}{2}$</u>		<u>17$\frac{1}{2}$</u>

SOPHOMORE YEAR			
Business Administration 5a	4	Business Administration 5b	4
English 21a	3	English 21b	3
History 21	3	History 22	3
Science Survey	4	Science Survey	4
Electives	3-4	Electives	3-4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<u>17$\frac{1}{2}$-18$\frac{1}{2}$</u>		<u>17$\frac{1}{2}$-18$\frac{1}{2}$</u>

JUNIOR YEAR			
Economics 52a	3	Economics 52b	3
Economics 50	3	Economics 63	3
Business Administration 59a	3	Business Administration 59b	3
Electives	9	Electives	9
	<u>18</u>		<u>18</u>

SENIOR YEAR			
Business Administration 85a	3	Business Administration 85b	3
Economics 99	2	Business Administration 54	3
Electives	13	Economics 99	2
	<u>18</u>	Electives	10
			<u>18</u>

Business Administration

5 a-b. **FIRST YEAR ACCOUNTING (初級會計學)**. 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 technique requisite for a thorough understanding of the principles of accounting. A minimum of bookkeeping routine is provided through illustrative problems and exercises, and through the development of simple sets of books.

Classroom 2 hours, laboratory 4 hours (4 credits); two semesters.

15 a-b. **SECOND-YEAR ACCOUNTING (高級會計學)**. Presuming a thorough acquaintance with bookkeeping technique and with the general principles of accounting, this course undertakes a more detailed study of the corporation balance sheet in connection with the problem of valuation. Emphasis is placed on the organization of the corporation, and the accounting involved on the principles of valuation, and on the theory of depreciation, allowance, and reserve accounts. Prerequisite: Business Administration 5 a-b.

Classroom 3 hours, laboratory 4 hours (5 credits); two semesters.

20. **BUSINESS ORGANIZATION (商業組織)**. General nature, evolution, and various forms of business organization; corporation, promotion, and incorporation; corporate structure, finance, and control; reorganization, combination, and trust; dissolution; corporation practice in China and the Chinese law.

3 hours; one semester.

21 **BUSINESS MATHEMATICS (商業數學)**. Compound interest annuities and their applications to depreciation; valuation and amortization of securities.

3 hours; one semester.

26 a-b. **BUSINESS LAW (商法)**. Designed to give the student some understanding of the the legal aspects of business which affect the ordinary activities of life. The material includes a consideration of the more fundamental and practical principles of business law developed from problems and selected cases particularly as related to the law contracts, agency, sales, property, negotiable instruments, partnership, corporation, etc.

3 hours; two semesters.

27. **INDUSTRIAL AND COMMERCIAL GEOGRAPHY (工商業地理)**. 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 materials of world commerce.

3 hours; one semester.

37. **INSURANCE (保險學)**. 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 carriers; state insurance; insurance statistics; insurance in China. Prerequisites: Business Administration 5 a-b.

3 hours; one semester.

46. **BUSINESS ENGLISH (商業英文)**. Prerequisite: Sophomore standing or the instructor's permission.

3 hours; one semester.

49. **ELEMENTARY MATHEMATICAL STATISTICS (初級數理統計)**. Elementary theory and applications of mathematical statistics including a detailed study of such topics as averages, measures of dispersion, and coefficient of correlation.

3 hours; one semester.

50. **CORPORATION FINANCE (公司理財)**. 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. Business Administration 15 a-b must precede or accompany this course.

3 hours; one semester.

54. **STATISTICAL METHODS (統計方法)**. Elementary principles of statistical method; 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.

3 hours; one semester.

55. **COST ACCOUNTING (成本會計學)**. Principles and practice of cost accounting and cost finding; elements of cost; mechanism of cost control; types of cost record; nature and procedure of the inventory; allocation of expense; preparation of financial statements for the manager; cost of stock record system; statistical and recording devices. Prerequisite: Business Administration 15 a-b.

Classroom 2 hour; laboratory 4 hours (4 credits); one semester.

56. **FOREIGN TRADE (國際貿易)**. Principles and practice of foreign trade; financing of foreign shipments; foreign exchange; marine insurance; factors affecting foreign markets; foreign trade of China.

3 hours; one semester.

57. a-b. **MARKETING (貿易學)**. Theory and principles of marketing and merchandising; modern methods and problems in the marketing of raw materials and manufactured products; trade channels and functions of various middlemen; advertising and its place in modern marketing practice; investigation of marketing methods in China.

2 hours; two semesters.

58 a-b. **ECONOMICS OF TRANSPORTATION (輸運經濟學)**. This is a general and coordinated course, aiming to give a broad survey of the principles and problems of transportation and to give unity to the study of several fields of transportation. It will also afford a fairly close view of the relations between transportation agencies and industries and commerce.

The first semester is devoted to railroad transportation. Attention is given to the history and development of China's railroad system; railroad organization, finance, operation, rates, and services; and governmental policies.

The second semester is devoted to highway, air, water, and pipe line transportation. The development, organization, operation, services, and rates of each of these several agencies of transportation are discussed, and governmental policies towards them are indicated.

3 hours; two semesters.

59 a-b. **MONEY AND BANKING (貨幣及銀行學)**. In the first semester a study is given on the history and theory of money, the nature, functions, and value of money, its relation to credit and price, and the currency standards in various countries. In the second semester the course describes the history, fundamental principles, and the function of modern banking, with a general survey on the different kinds of banking institutions.

3 hours; two semesters.

60. **PRINCIPLES OF INVESTMENT (投資原理)**. 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 economic, industrial, and political conditions affecting security prices; security ratings and appraisals; investment banking institutions; investment legislation and social control. Prerequisites: Business Administration (Economics) 5 a-b and Economics 10 a-b.

3 hours; one semester.

61. **ADVERTISING (廣告學)**. A basic course dealing with the functions, theory, and its applications. It deals with psychology and its guidance in advertising research. Many problems are drawn from current advertising campaigns.

3 hours; one semester.

62. **INDUSTRIAL MANAGEMENT (工業理管)**. Planning, launching, locating, constructing, and equipping of industrial enterprises; administrative organization; plant and operation policies; 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 and 15 a-b (Economics).

3 hours; one semester.

65. **Auditing (審計學)**. Nature and procedure of the audit; principles of verification; depreciation; investigations for various purposes. Prerequisite: Business Administration 15 a-b.

4 hours; one semester.

66. **INTERNATIONAL COMMERCE POLICIES (國際業商政策)**. The historical development of international trade, the theories and practices of commercial policies, the European systems of colonization, Chinese and foreign tariff systems, commercial treaties, and administrative and promotive organization are the major subjects of study.

3 hours; one semester.

68. **RAILROAD TRAFFIC AND RATES (鐵路運輸及運費)**. This course is designed for advanced students who have taken Economics of Transportation. It takes two viewpoints: that of the railroad men and that of manufacturers, merchants, and others interested in railroad service, railroad rates, and the external aspects of railroad management. Consequently, it is of interest to those students who are to enter railroad service and to those who are to engage in any commercial or industrial work in which railroad transportation is an important factor.

The first section of the course deals with railroad traffic and services, shipping regulations and practices. This is followed by a study of the organization of the traffic department of a railroad, with special reference to rate making, methods of soliciting and advertising, relations with commercial traffic organizations and individual shippers, and similar subjects. Then comes a discussion of the functions and organization of typical industrial traffic departments and of policies in dealing with carriers. The concluding part of the course is devoted to discussion of principles governing railroad charges and railroad rate structures. Current developments in the field of railroad traffic also receive attention.

3 hours; one semester.

69. **BANKING SYSTEM (銀行制度)**. A survey of the field of both public and private banking and financial institutions among the leading Western and Oriental countries, with special emphasis on the historical development in banking reforms and the modern tendencies toward concentration in America and Europe.

3 hours; one semester.

70. RAILROAD ADMINISTRATION (鐵路管理). This course is designed for advanced students who have taken Economics of Transportation. It aims to give a broad survey of the administrative organization of railroads and to afford a fairly close view of the relations between railroads and their employees.

The course first considers the successive steps in the promotion, financing, construction, and operating organization of a new railroad project. Next comes a discussion of railroad finance, valuation, and reorganization. This is followed by a study of the typical forms of operating organization. The functions and main activities of each department and its several officials, the division in authority and responsibility of the various divisional and general officers, the distinction between line and staff, and the relations of these officers to their own and to other departments are traced.

Attention is also given to the relations between management and men, including a review of the development and present organization of railroad labor unions.

3 hours; one semester.

71. WATER TRANSPORTATION (水道運輸). This course is designed for advanced students who have taken Economics of Transportation. It includes in its scope ocean, coastwise, and inland water transport. Class meetings are occupied with a discussion of the economics of water transportation and of current problems in the services, rates and fares, organization, management, and regulation of water transport agencies. Governmental policies are traced. Special consideration is made on recent developments of water transportation in China.

3 hours; one semester.

72. COMMERCIAL BANKING POLICIES (商務銀行政策). This course discusses the problems and policies that arise in the financial management of modern commercial banks. The operating principles in business cultivation, loan and discounts, credit and exchange, branch extension, and problems of organization and administration are analysed.

3 hours; one semester.

73. HIGHWAY AND AIR TRANSPORTATION (空中與公路運輸). This course is designed for advanced students who have taken Economics of Transportation. It is divided into two parts: the first part is devoted to motor and highway transportation and the second, to air transportation.

Motor and highway transportation is studied with special attention paid to the development, financing, and administration of highway; the organization, management, services, and rates of motor carriers of merchandise and passengers; the use of motor transportation in industry; the coordination of railroad, electric railway, steamship, and motor transportation of freight and passengers; the traffic problems of motor transportation; the comparative cost of service by motor, railroad, electric railway, and

steamship transportation; the regulation and promotion of motor transportation by national, provincial, and local government.

The development of air transportation is studied with particular emphasis upon the equipments and facilities used in air transportation; the use of air transportation in commerce, including the development of the air transportation of passengers, mail, and express; the services and rates of air transportation companies; and the regulation and promotion of air transport by national and international regulatory bodies.

3 hours; one semester.

74. REAL ESTATE PRACTICE (地產學). This course familiarizes the student with the fundamentals of the real estate business, method of marketing and financing, law of real property, and real documents.

3 hours; one semester.

76. CENTRAL BANKING POLICIES (中央銀行政策). This course embraces a consideration of the operating principles and policies pursued by central banks in various countries, and with particular emphasis upon the functions, methods of organization and management, and means of regulating credit and currency.

3 hours; one semester.

78. PUBLIC UTILITIES (公用事業). This course deals with economic, business, and regulatory problems of the various public utilities. It opens with a discussion of the economic and legal characteristics and with a historical review of each public utility. The fundamental principles of public utility organization, operation, and management; the problems of valuation for rate making purposes; fair return and rate structures; services and service standards; utility financing and intercorporate relationships; public and employee relations; the problems of governmental promotion and regulation; and other economic and business problems are successively discussed.

3 hours; one semester.

79. FOREIGN EXCHANGE (國際匯兌). Theory and practice of foreign exchange; sources of supply; demand for exchange; kinds of bills of exchange; foreign exchange market; money rate and exchange market; import and export credits; speculation in exchange; arbitrage; profit possibilities in foreign exchange.

3 hours; one semester.

81. BUSINESS AND INVESTMENT FORECASTING (商情循環預測). The purpose of this course is to familiarize students with the general principles of business and investment forecasting, its problems and practice. Attention is concentrated upon the use of statistical barometers rather than upon their preparation. Considerable time will be given to the study of Hong Kong-Canton exchange, though this work is primarily analytical in

character; principles and causes underlying the market fluctuations. The "Case Book" method will be used. It also studies the general accepted present day economic theories underlying the fundamental concepts of the typical periods of business cycles. Special attention is given to the causes and effect of the Wall Street disaster and to future of the Gold-Silver problems.

3 hours; one semester.

85 a-b. PUBLIC FINANCE AND TAXATION (財政學及租稅論). During the first part of the year due consideration is given to a survey of historical development of financial science. The theories of public expenditures and revenues, national budgetary systems, the financial aspects on administrative revenues, state industries and public credit and indebtedness are analysed. The second part of the study concerns the evolution of the system of taxation, the popular theories of taxation, and with detailed discussions on both central and local taxes.

3 hours; two semesters.

86. INTERNATIONAL FINANCE. (國際理財). The close financial interdependency of nations and the growing importance of international financial operation present interesting problems for study. This course will devote attention to international balances of payments; movement of long term capital and short term funds; international money and security markets; intergovernmental debts; problems in foreign exchange; the repercussions of international financial transactions on domestic monetary and banking conditions; and a critical examination of international trade theories in the light of modern day international, financial, and credit operations. Special stress will be laid upon the international financial position of China.

3 hours; one semester.

89. BANKING PRACTICE (銀行實習). This course offers a systematic discussion on the procedures of organization, management, and handling of business affairs by modern commercial banks. Practical treatments on the methods of bookkeeping and accounting proving of daily works are covered.

3 hours; one semester.

99 a-b. THESIS (畢業論文).

2 hours; two semesters.

Economics

1. GENERAL ECONOMIC THEORY (經濟學原理). An abbreviated course of 10 a-b open only to students of the Colleges of Agriculture and Engineering.

4 hours; one semester.

10 a-b. (11 a-b) GENERAL ECONOMIC THEORY (經濟學原理). The analysis of principles which govern economic activity and the articulation of these into a rational system. Theory is stressed. The material covered includes production, exchange, distribution, and consumption.

3 hours; two semesters.

25. COOPERATIVE MOVEMENT (合作運動). A survey of the underlying principles and historical development of the cooperative movement with a brief discussion of different types of cooperative societies as regards their organization, functions, and the methods of business applied. A special study is also made of the present condition of the movement both at home and abroad.

3 hours; one semester.

31. ECONOMIC HISTORY (經濟史). Historical economic systems; economy of the ancient world; mediaeval development; the evolution from an economic point of view of the modern world.

3 hours; one semester.

50. LABOR PROBLEMS AND LABOR LEGISLATION (勞工問題及勞工立法). The position of the worker in modern industrial society; unemployment; wages and wage incentives; hours; child labor; women in industry; the aged worker and pensions; employee representation; labor unions; employers' associations; personnel management; industrial peace; proposed solutions and attitude toward these problems by workers, employers, and the public; labor legislation in China.

3 hours; one semester.

52 a-b. HISTORY OF ECONOMIC THOUGHT (經濟思想史). (a) First Semester—Early Writers and Classical Economists. The work of the first semester includes a brief survey of the economic thought of ancient and medieval writers, of the Mercantilists, and of the Physiocrats. This is followed by a more detailed examination of the British classical economists. Stress is laid upon the works of Adam Smith, Thomas Malthus, David Ricardo, and John Stuart Mill.

(b) Second Semester—Marginalism and Dissenting Schools. The development of orthodox economics after Mill is traced through Cairness, Jevons, and the Austrian School down to Alfred Marshall and J. B. Clark. The rise of marginalism and neo-classicism is indicated. This is followed by a brief survey of the Optimists, the Nationalists, the Historical School, and the Socialists.

The student should have some knowledge of economic theory from a previous course in principles of economics.

3 hours; two semesters.

53. ECONOMIC PROBLEMS OF CHINA (中國經濟問題). An introductory survey of some of the modern economic problems of China, with an examination of proposed remedies and reforms. Discussions and reports.

3 hours; one semester.

63. SOCIALISM (社會主義). The development of socialistic thought and the chief contemporary systems of socialism. Special attention given to Marxian philosophy, to modern evolutionary socialism, and to present day radical movements.

3 hours; one semester.

64. MONOPOLY AND TRUSTS (獨佔與托辣斯). The aim of this course is to acquaint the student with the combination movement in the forms of monopoly and trust. In general, consideration is given to their nature and evolutionary history, the reasons for and the technique in their formation, the various types of their organization, their advantages and limitations, and the influences they exert upon social, economic, legal, and political policies and systems.

3 hours; one semester.

76. CONTEMPORARY ECONOMIC HISTORY OF CHINA (中國近代經濟史). Economic development of China from the Tsing Dynasty to the present time. The principal topics covered are: agricultural conditions, population, policy of trade restriction, the guilds, the thirteen factories, treaty ports, tariff, the growth of towns and urban industry, foreign trade, foreign investments, public finances, money and banking, transportation, problems of labour, Chinese overseas, and the present international economic relations with the world.

3 hours; one semester.

83 a-b. VALUE AND DISTRIBUTION (價值論及分配論). Investigations in the theory of value and the theory of distribution with a critical analysis of the representative theories of the leading authors since Adam Smith. Open to Seniors only.

3 hours; two semesters.

84. METHODOLOGY (經濟學方法). The history of economic science reveals processes by which truth is sought and upon which schools of thought are formed. This course aims to make an intensive study of these processes followed by different economists. Special attention is directed to the deductive method adopted to a large extent by the classical school, the inductive method advocated by the historical school, the statistical method recommended by the quantitative theorists, and the various methods of approach proposed by recent economists.

3 hours; one semester.

87. PLANNED ECONOMY (計劃經濟). It introduces the trend of economic thought on the modern movements and developments of economic planning. A comparative study between the capitalistic and socialistic nature of planning is considered. The new tendencies in economic development and the planned programs of Soviet Russia, Italy, Germany, the United States of America, and other countries are studied.

3 hours; one semester.

91. SEMINAR (專題研究). A seminar for advanced students, subjects or investigation to be determined by special arrangement.

1-3 hours; one semester.

99 a-b. THESIS (畢業論文).

2 hours; two semesters.

Chemistry

Professors Frank, Laird, Chiu, Kung, Chan, Hoh and Chang; Miss Wu and Mr. Li.

THE DEPARTMENT OF CHEMISTRY has, in the Willard Straight Science Hall, laboratories for General, Analytical, Organic, Physical, Advanced Inorganic, and Industrial Chemistry and for Food and Technical Analysis, with facilities for two hundred and fifty students, working in sections. Each desk has gas, water, and fume vent, and also, in certain laboratories, compressed air, steam, and electricity (both a. c. and d. c.). Ventilation is secured by fans in the attic. In addition to these facilities in student laboratories, space and equipment are available for various kinds of research work.

Industrial Chemistry is advancing at a very rapid rate in South China. In addition to the modern chemical factories being erected at Sai Chuen by the Bureau of Reconstruction of the Kwangtung Government, as well as the sugar factories and the paper factory also being operated by the Government, numerous smaller chemical plants are being put in operation under private auspices. This development will bring about an increasing need for trained personnel to operate chemical plants and will raise, as it has already done, problems incident to the application of modern chemical principles to local condition and materials. Lingnan-trained chemists have already found places of usefulness and responsibility in both government and private industrial concerns, and one of the primary aims of the curriculum is to prepare men for this service.

The Industrial Research Branch of the Department was formed to meet the other needs and opportunities presented by the industrial chemical growth referred to above. It is organized to undertake analysis of raw materials and other products as well as to carry out research upon industrial problems and processes. Those desiring to avail themselves of these services may address inquiries to the Chairman of the Department.

In addition to several hundred well selected books there are available in the Department library current numbers, and in some cases long runs of over thirty journals publishing articles on Chemistry. Some of the journals in other departmental libraries, especially that of the Department of Physics, are of value to the advanced students in Chemistry.

The Department offers a major with three options for undergraduate students, one for those who expect to make Chemistry their profession or go on with more advanced study ("A" in the exhibit below), one for those who expect to teach Chemistry ("B" below), and one for those who are going into chemical industry ("C" below). All students take the Freshman program printed on page 50, electing Physics, not Biology, and the Sophomore program printed below. The exhibit below gives the program for all three options ("I" and "II" are for the first and second semesters, respectively).

For students electing the industrial option, arrangements also have been made with the directors of a number of the modern chemical factories of the Bureau of Reconstruction whereby Lingnan students are able to work in these factories during the summer between their junior and senior years, thus gaining practical plant experience to supplement their classroom and laboratory studies.

Since June 1936 the Department has been authorized by the Ministry of Education to offer work leading to the degree of Master of Science. This includes both course work and research, and students may be accepted either in pure or in applied chemistry. A limited number of Graduate Fellowships have been established, carrying a small stipend and open to qualified graduate students. Information concerning these may be had through the Chairman of the Department or directly from the Chairman of the Committee on Graduate Studies.

Program for Sophomore Year for All Majors in Chemistry

SUBJECTS	CREDITS	SUBJECTS	CREDITS
Chemistry 12a	4	Chemistry 12b	4
Chemistry 61a	5	Chemistry 61b	5
Chinese Literature 1a	3	Chinese Literature 1b	3
Mathematics 13a	4	Mathematics 13b	4
Social Science Elective†	3-4	Social Science Elective†	3-4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<u>19½-20½</u>		<u>19½-20½</u>

*To be chosen from the following

(a) History 2ab (year course)	3-3
(b) Economics 10ab (year course)	3-3
(c) Government 5 (1st semester)	4
(d) Sociology 22 (2nd semester)	4

Upper Division Program for All Majors in Chemistry

YEAR	SUBJECTS	OPTION "A"		OPTION "B"		OPTION "C"	
		CREDITS	CREDITS	CREDITS	CREDITS	CREDITS	CREDITS
JUNIOR	Chemistry 51a-b	4	4	4	4	4	4
	Biology 2,3	4	4	4	4	4	4
	Physics 11, 13	4	4	4	4	4	4
	Chemistry 82 a-b					4	4
	Chemistry 84 a-b					3	3
	Education 21				3		
	German 21 a-b or French 21 a-b	5	5				
	Psychology 44			3			
	Approved Electives			3	3		
			<u>17</u>	<u>17</u>	<u>18</u>	<u>18</u>	<u>17</u>	17
SENIOR YEAR	Chemistry 58, 68,	3	3	3	3	3	3
	Chemistry 99 a-b	2	2	2	2	2	2
	Chemistry 83 a-b	3	3				
	Chemistry 85 a-b					3	3
	Education			6	6		
	Engineering					4	4
	German 31 a-b or French 31 a-b	3	3				
	Approved Electives	6	6	6	6	5	5
		<u>17</u>	<u>18</u>	<u>17</u>	<u>17</u>	<u>17</u>	<u>17</u>

1 a-b. GENERAL INORGANIC CHEMISTRY (無機化學物論). The common elements and their compounds are studied, emphasizing the underlying atomic and molecular basis of chemical behavior. The laboratory work of the second semester is qualitative analysis. Prerequisites: Entrance Mathematics and Physics. Laboratory fee, \$10.00 per semester.

Classroom 3 hours, laboratory 6 hours (5 credits); two semesters.

12 a-b. ANALYTICAL CHEMISTRY (分析化學). Qualitative analysis part of first semester; quantitative analysis for balance of first and all of second semester. Prerequisite: Chemistry 1a-b. Lab. fee, \$5.00.

Classroom 2 hours, laboratory 6 hours (4 credits); two semesters.

21. AGRICULTURAL BIOCHEMISTRY (農業生物化學). Chemistry as related directly to agriculture; food and nutrition of plants and animals; chemical basis for valuation of animal, foods, soils, and fertilizers. Prerequisites: Chemistry 1 a-b and 24. Lab. fee, \$5.00.

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

22. ANALYTICAL CHEMISTRY FOR MEDICAL AND AGRICULTURE STUDENTS (實用定量分析化學). Quantitative analysis of materials of medical interest or of typical agricultural materials including soils, crops, and feed stuffs. Given in the first semester for medical students and in the second for agriculture students. Prerequisites: Chemistry 1 a-b and 24. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

24. INTRODUCTION TO ORGANIC CHEMISTRY (有機化學概論). A brief course for students in Agriculture, Home Economics, and the Medical course. Prerequisite: Chemistry 1a-b. Lab. fee, \$5.00.

Classroom 3 hours, laboratory 6 hours (5 credits); one semester.

51 a-b. PHYSICAL CHEMISTRY (物理化學). An introduction to the theories of Chemistry and the borderland between Chemistry and Physics. Prerequisites: Chemistry 12 a-b, Mathematics 13, College Physics. Lab. fee, \$5.00.

Classroom 2 hours, laboratory 3 hours (3 credits); two semesters.

58. ADVANCED INORGANIC CHEMISTRY (高級無機化學). Presentation of chemical behavior in terms of free energies and reaction velocities. Review of the chemistry of the more important elements, with emphasis on their relationships in the Periodic Table. Inorganic preparations. Prerequisite: Chemistry 51 a-b. Lab. fee, \$5.00.

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

61 a-b. ORGANIC CHEMISTRY (有機化學). General discussion of the compounds of carbon and a survey of the important theories of Organic Chemistry. Preparation of typical compounds. (Students majoring in Biology or taking the Pre-medical course may arrange to take only one afternoon of laboratory work each semester). Prerequisite: Chemistry 1a-b. Lab. fee, \$5.00.

Classroom 3 hours, laboratory 6 hours (5 credits); two semesters.

63. HOUSEHOLD CHEMISTRY (家政化學). A study of water, fuels, textiles, dyes, laundry agents, disinfectants, etc. Prerequisite: Chemistry 24. Lab. fee, \$5.00.

Classroom 3 hours, laboratory 6 hours (5 credits); one semester.

66. ANALYTICAL ORGANIC CHEMISTRY (分析有機化學). Prerequisite: Chemistry 61a-b. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

68. THEORIES OF ORGANIC CHEMISTRY (有機化學的理論). Discussion of the theories of Organic Chemistry; reports on recent advances in Organic Chemistry. Prerequisite: Chemistry 61a-b.

Classroom 2 hours (2 credits); one semester.

69. ADVANCED ORGANIC SYNTHESIS (高級綜合有機化學). Prerequisite: Chemistry 61a-b. Lab. fee, \$5.00.

Laboratory 6 hours (2 credits); one semester.

71. ADVANCED ANALYTICAL CHEMISTRY (高級分析化學). Prerequisites: Chemistry 12a-b and 51a-b. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

75. FOOD ANALYSIS (食物分析). Prerequisites: Chemistry 24 or 61a-b, Chemistry 12a-b. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

76. INSTRUMENTAL ANALYSIS (儀器分析法). Prerequisites: Chemistry 12 a-b and 51 a-b. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

77. WATER ANALYSIS (水質分析). Prerequisite: Chemistry 12a-b. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

82. SPECIAL PROBLEMS IN INDUSTRIAL CHEMISTRY (工業化學特別問題研究). Prerequisites: Chemistry 61 a-b and 83a-b. Lab. fee, \$5.00.

Laboratory 9 hours (3 credits); one semester.

83 a-b. CHEMICAL FACTORY EQUIPMENT (化學工廠機械). A discussion of unit operations, including filtration, distillation, etc. Prerequisites: Chemistry 51a-b and 61a-b.

Classroom 3 hours (3 credits); two semesters.

84. a-b. INDUSTRIAL CHEMICAL OPERATIONS (工業化學實習). A laboratory course to accompany Chemistry 83 a-b. Experiments on unit operations and certain manufacturing processes. Prerequisites: same as Chemistry 83 a-b. Lab. fee, \$5.00.

Laboratory 6 hours (2 credits); two semesters.

85 a-b. INDUSTRIAL CHEMISTRY (工業化學). Detailed study of modern practice in the more important chemical industries.

Classroom 3 hours (3 credits); two semesters.

88. SOAP FACTORY PRACTICE (製視實習). Lab. fee, \$5.00.

Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

99 a-b. THESIS (畢業論文). Required of all Seniors who major in Chemistry.

Laboratory 6 hours (2 credits); two semesters.

Courses Primarily for Graduate Students.

The offerings in any given year will depend to some extent on the requirements that must be met by the graduate students in residence. Among the courses that have been given in recent years may be mentioned the following:

- 110 a-b. CHEMICAL THERMODYNAMIOS (熱力化學).
3 credits; two semesters.
111. COLLOID CHEMISTRY (膠體化學).
3 credits; one semester.
- 112 a-b. THEORIES OF HOMOGENEOUS REACTIONS (同性反應的理論).
3 credits; two semesters.
113. THEORY OF ELECTROLYTIC SOLUTIONS (溶液電解的理論).
3 credits; one semester.
- 115 a-b. ADVANCED PHYSICAL CHEMISTRY (高物理化學).
3 credits; two semesters.
120. SPECIAL METHODS IN ANALYTICAL CHEMISTRY (分析化學之特別方法).
3 credits; one semester.
130. CHEMISTRY OF FOOD AND NUTRITION (食物及滋養料化學).
3 credits; one semester.
140. ADVANCED ORGANIC CHEMISTRY (高級有機化學).
3 credits; one semester.
150. a-b. INDUSTRIAL RESOURCES OF SOUTH CHINA (南中國工業原料之研究).
3 credits; two semesters.
151. WATER ANALYSIS (水質分析).
Classroom 1 hour, laboratory 6 hours (3 credits); one semester.
152. WATER PROBLEMS (水質的問題研究).
3 credits; one semester.
- 153 a-b. WATER WORKS PRACTICE (水廠實習).
5 periods weekly in works (5 credits); two semesters.
154. BACTERIOLOGICAL WATER ANALYSIS (水質的細菌分析).
Laboratory 6 hours (2 credits); one semester.

Chinese

Professors S. C. Yeung and C. H. Ng; Miss Sinn, Messrs. T. W. Chan and S. L. Wong.

THE DEPARTMENT OF CHINESE LANGUAGE AND LITERATURE offers an unusual opportunity for students to specialize in the study of Chinese literature and the Chinese language. Libraries in Canton supplement the University Library to advantage.

Two majors are offered, one in Chinese Literature which stresses the field of comparative literature. Students may take a minor in English or in Education. The other major is for those who plan to teach Chinese. These students must take the professional minor in Education.

All students in the University are required to take the course Chinese Literature 1a-b. A special curriculum has been provided for overseas students which enables them to make up their deficiencies in Chinese with a minimum loss of time taken from their other collegiate work. Many of the courses described below are given in alternate years, thus offering students a wide variety of courses in this field during the time they are in the Upper Division.

Students planning either to major in Chinese Literature or to teach Chinese will take the regular Arts curriculum, as given on page 50, in their Freshman year. In later years they will follow the appropriate program below, which gives the general requirements in the Upper Division, leaving the specific courses open to election as determined in part by the courses offered that year.

Program for the Major in Chinese Literature

YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	CREDITS	SUBJECTS	CREDITS
SOPHOMORE	Chinese Literature 22a	3	Chinese Literature 22b	3
	Chinese Literature 25a	3	Chinese Literature 25b	3
	English Literature 21a	3	English Literature 21b	3
	History 21a	3	History 21b	3
	Approved Electives	6	Approved Electives	6
	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
		18 $\frac{1}{2}$	18 $\frac{1}{2}$	
JUNIOR	Major	9	Major	9
	Minor and Electives	9	Minor and Electives	9
		17	18	
SENIOR	Major, including Thesis	9	Major, including Thesis	9
	Minor and Electives	8	Minor and Electives	8
		17	17	

Program for the Major in the Teaching of Chinese

SOPHOMORE YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	CREDITS	SUBJECTS	CREDITS
	Chinese Literature 22a	3	Chinese Literature 22b	3
	Chinese Literature 25a	3	Chinese Literature 25a	3
	English Literature 21a	3	English Literature 21a	3
	Psychology 21	3	Education 21	3
	History 21a	3	History 21b	3
	Approved Elective	3	Approved Elective	3
	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
		<hr/> 18 $\frac{1}{2}$		<hr/> 18 $\frac{1}{2}$
JUNIOR	Major	9	Major	9
	Minor and Electives	9	Minor and Electives	9
		<hr/> 18		<hr/> 18
SENIOR	Major, including Thesis	9	Major, including Thesis	9
	Minor and Electives	8	Minor and Electives	8
		<hr/> 17		<hr/> 17

Chinese

1 a-b. INTRODUCTION TO CHINESE LITERATURE (文學導論). This course seeks to familiarize the student with the main genres of Chinese Literature and to prepare him for the study of special types and periods. Lectures, assigned readings, and bi-weekly papers. Prerequisite for all other courses in Chinese.

3 credits; two semesters.

2. THE SPOKEN LANGUAGE (國語). A course on the national language. Special attention is given to the national phonetic symbols.

2 hours (1 credit); either semester.

21. INTRODUCTION TO CHINESE LEARNING (中國學術概論)

3 hours; one semester.

22 a-b. MASTERPIECES OF CHINESE PROSE (散文名著). A study of the representative prose writings of the various schools and periods, including brief discussion of the theory of style. Lectures, imitative exercises, and reports.

3 hours; two semesters.

23 a-b. MASTERPIECES OF CHINESE POETRY (韻文名著). A study of the different types of Chinese poetry with emphasis on the significance of biographical and historical background. Lectures, discussions, and papers.

3 hours; one semester.

24. RHETORIC (修辭學). A study of grammar and practice in writing in acceptable style.

3 hours; one semester.

25 a-b. FORMATION OF THE CHINESE CHARACTERS (文字學). A study of the philology and linguistics of the Chinese characters, both ancient and modern.

3 hours; one semester.

30. PRINCIPLES OF LITERATURE (文學原理). Theories of origin, development, form, and contents of literature to give a concise understanding of its nature.

3 hours; one semester.

31. CHINESE LITERATURE FROM THE BEGINNING TO THE HAN DYNASTY (先秦文學). Yin Dynasty to 206 B. C.

3 hours; one semester.

32. CHINESE LITERATURE OF THE HAN AND SIX DYNASTIES (中古文學). 206 B. C. to 617 A. D.

3 hours; one semester.

33. CHINESE LITERATURE OF THE TANG, SUNG, YUAN, AND MING DYNASTIES (近古文學). 618 A. D. to 1643 A. D.

3 hours; one semester.

34. CHINESE LITERATURE OF THE MANCHU DYNASTY (清代文學). 1644 A. D. to 1911 A. D.

3 hours; one semester.

40. MODERN WRITERS (近代文學). An intensive study of the literature since 1842, with special emphasis on the influence of the West.

3 hours; one semester.

41. CHINESE LITERARY THOUGHT (中國文學思潮). A study of the development of literary thought in the various dynastic periods.

3 hours; one semester.

52. ANCIENT CHINESE PHONOLOGY (古音論通). A critical examination of the existing theories regarding initial and final sounds of the ancient Chinese language.

3 hours; one semester.

53. TEXTUAL CRITICISM (古書校讀法). A study of the general methods of textual criticism. A special book is assigned to the students for study and discussion.

3 hours; one semester.

54. HIGHER CRITICISM (改證學). A study of the essential methods of Chinese scholars especially in the Manchu dynasty in appraising the materials presented in historical writings.

3 hours; one semester.

55. INTRODUCTION TO THE CONFUCIAN CLASSICS (經學通論). A methodical study of the sources and fundamental ideas of the Chinese classics of the Confucian school.

3 hours; one semester.

56. LITERARY CRITICISM (文學評論). A brief examination of the important essays on literary criticism, and a discussion of the theories of modern Chinese critics.

3 hours; one semester.

57. CHINESE PROSE ROMANCES (唐宋傳奇). Reading and discussion of representative prose romances of the Tang and Sung Dynasties.

3 hours; one semester.

58. THE EPISTOLARY AND FAMILIAR ESSAY (小品選讀). A study of personal letters and familiar essays which are of literary interest.

3 hours; one semester.

59. THE EARLY CHINESE NOVEL (初期小說). Reading in chronological order of the outstanding novels of the Yuan and Ming Dynasties.

3 hours; one semester.

60. THE CHINESE NOVEL OF THE MANCHU DYNASTY (清代小說). This course is a continuation of Chinese Literature 59, but may be taken separately.

3 hours; one semester.

61. THE CHINESE SHORT STORY (短篇小說). This course studies the material and technique of the modern short story in China, drawing freely from older Chinese tales and from Western authors.

3 hours; one semester.

62. ANTITHETIC PROSE (駢體文). A study of the origin and development of antithetic prose writings of the different schools and periods.

3 hours; one semester.

63. HISTORY OF POETRY (詩史). A study of the origins and development of poetry.

3 hours; one semester.

64. VERSIFICATION (詩學及詩選). This course aims to train the student in verse writing and to give him an understanding of the technique of verse, thus increasing his appreciation of Chinese poetry. It includes the analysis of assigned poems and original composition of the various types of Chinese verse.

3 hours; one semester.

65 (53). HISTORY OF TZI (詞史). A history of Tzi since the Five Dynasties.

3 hours; one semester.

66. SELECTIONS FROM TZI (詞學及詞選). A study of the forms of Tzi and methods of writing; selected poems used as models.

3 hours; one semester.

67 (63). THE CHINESE DRAMA (曲史). A brief review of the development of the Chinese drama mainly as a literary genre, with special emphasis on the drama of the Yuan Dynasty.

3 hours; one semester.

68. DRAMA; SELECTED DRAMAS (曲學及曲選). A study of the methods of writing drama; rhymes and rhythms of drama.

3 hours; one semester.

69. POEMS OF THE TANG DYNASTY (唐詩研究). Origin, masterpieces and style of Tzi in the Tang Dynasty.

3 hours; one semester.

70 (41). TZI OF THE SUNG DYNASTY (宋詞研究). Origin, masterpieces and style of Tzi in the Sung Dynasty.

3 hours; one semester.

71 (64). THE LITERARY TRADITION OF KWANGTUNG PROVINCE (廣東文學). A historical survey. Lectures and investigation.

3 hours; one semester.

72 (65). BIBLIOGRAPHY (書目學). A study of the history and development of bibliographical methods in China with special emphasis on the relationship between bibliographical technique and independent study and the methods of discriminating between texts.

3 hours; one semester.

73 (68). ADVANCED COMPOSITION (高級習作). This course undertakes to give the student ample practice in the application of rhetorical principles. Weekly exercises on assigned topics.

3 hours; one semester.

74 (71). COMPOSITION FOR SCIENCE STUDENTS (科學論文習作). The aim of this course is to guide and encourage the student to make use of the knowledge which he has acquired through the mediums of the European languages by expressing it in modern and idiomatic Chinese. Discussions and conferences.

3 hours; one semester.

75. DOCUMENTARY CHINESE (公文程式).

3 hours; one semester.

76. CHINESE BALLADS (樂府研究).

3 hours; one semester.

80. TRANSLATION (翻譯).

3 hours; one semester.

81. CULTURAL RELATIONS BETWEEN CHINA AND THE WEST (中西文明關係). A historical survey of reciprocal influences and conflicts from the Middle Ages to the present. Lectures and independent investigations.

3 hours; one semester.

87 a-b. CHINESE CIVILIZATION (中國文化). A course offered to exchange students only.

3 hours; two semesters.

96. SEMINAR (專題研究).

3 hours; one or two semesters.

99 a-b. THESIS (畢業論文).

2 hours; two semesters.

Economics

THE COURSES IN ECONOMICS are described on pages 67 and 68, following the description of the courses in Business Administration.

Department of Education and Psychology

Prof. H. L. Hsu; Mr. S. M. Chau.

THE WORK OF THE DEPARTMENT is designed with the special purpose of either preparing the student for efficient teaching in the secondary schools, or guiding the student for a general and systematic study in the Field of Education. Although a course of study leading to a major is not offered at present, two minors are open, namely, Professional Minor in Education and General Minor in Education.

The course for the Professional Minor in Education is organized for those who intend to choose teaching as their vocation. A closely intercorrelated program is arranged between the Department and the other department or departments concerned so that the student will be adequately equipped both in the subject matter field he intends to teach and in educational theory and practice as the foundation for effective teaching. Such a student is expected to take a major in the subject matter field and a Professional Minor in Education. The subject matter field may be either one of the following: Chinese, English, Biology, Chemistry, Physics, History, Government, or Sociology. Special arrangement is also made so that the Teaching of Science (which includes Biology, Chemistry, and Physics) or the Teaching of Social Science (which includes Government, History, and Sociology) may be taken as a subject matter field for the prospective teacher. In addition to the regular course work, the requirement for the Professional Minor includes a semester of practice teaching, facilities for which are provided by the Department. Upon graduation, a special certificate for secondary school teaching is granted in addition to the University Diploma.

The course for General Minor in Education is intended for those students looking forward to entering lines of work other than teaching and who, having nevertheless a general, non-professional interest in Education, desire an opportunity for guided and systematic study in the field.

Program for Professional Minor

Lower Division

For students majoring in Chinese, English, Biology, Chemistry, Physics, History, Government, or Sociology: Education 21 (Introduction to Education) and Psychology 21 (General Psychology) are required, each being a 3-credit course. In order to make it possible for the students to take these two courses in their Sophomore year, changes in the Sophomore programs of the several departments may be made as indicated below:

Majors in Chinese:	Requirement of French 21 a-b may be waived.
Majors in Western Literature:	Requirement of French 21 a-b may be waived.
Majors in other fields:	With the approval of the adviser concerned, changes in the Sophomore program to permit the taking of Psychology 21 and Education 21 may be made.

For students majoring in the Teaching of Science, the program given on page 50 for science students should be followed in the Freshman year.

Students who plan to emphasize Biology in the Upper Division should take Biology 2 and 3 this year, postponing Physics 4 a-b until the next year. Students who plan to emphasize Chemistry or Physics in the Upper Division should take Physics 4 a-b this year, and postpone Biology 2 and 3 until the next year. As for the Sophomore year, the program should be the following:

SEMESTER I		SEMESTER II	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
Chemistry 12a	4	Chemistry 12b	4*
Chinese 1a	3	Chinese 1b	3
Physics 4a or Biology 2	4	Education 21	3
Psychology 21	3	Physics 4b or Biology 3	4
Social Science Elective	3	Social Science Elective	3
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/> 17 $\frac{1}{2}$		<hr/> 17 $\frac{1}{2}$

* Chemistry 12 a-b is prerequisite to all Upper Division courses in Chemistry. Students who do not expect to take Chemistry in the Upper Division may take an elective in the place of Chemistry 12 a-b.

For students majoring in the Teaching of Social Science, information is given elsewhere in this Catalogue under the section of the Department of Social Science.

Upper Division

The work of the Professional Minor in Education includes the following courses, each of which is of three credits, in the Upper Division:

- Edu. 50 Technique and Observation of Teaching
- Edu. 51 Curriculum
- Edu. 59 Educational Psychology
- Edu. 60 Measurement in Education
- Edu. 91 Practice Teaching
- Edu. 53 School Administration or
- Edu. 85 Teaching of a Special Subject.

For students majoring in the teaching of science, the program is as below:

Biology	5 credits
Professional Minor in Education	18 credits
Major (a course in each of two fields selected from Biology, Chemistry, and Physics)	18 credits
Thesis (in any one of the three fields)	4 credits
Electives	25 credits
	<hr/> 70

The attention of students planning to take this major is called to the following considerations. If Chemistry is to be taken in Upper Division as one of the three "fields" the student should take Chemistry 12 a-b in the Sophomore year. If Chemistry is not chosen as one of the three "fields" the student should take an elective in the Sophomore year in place of Chemistry 12 a-b and take Chemistry 24 (5 credits) in Upper Division.

If the Upper Division major is to be in Physics, as indicated by "field" or thesis, or if Physical Chemistry (Chemistry 51) is to be taken as a subject, Mathematics 13 a-b must be included in the Upper Division electives and taken in the Junior year.

Students who take this major are granted on graduation the same degree as that received by those majoring in any one of the sciences, namely, the degree of Bachelor of Science. Such students are advised, prior to their Senior year, by a member of the Department of Education, but in their Senior year their adviser is chosen from that department in which their thesis is written.

Program for General Minor

Lower Division

Education 21 is required for General Minor. The course is intended for the Sophomore year, but it may be postponed to the Junior year and counted for Upper Division credits upon the recommendation of the Department.

Upper Division

Education 53 (41) is required for Upper Division. In addition to that, the student should take 3 or more educational courses (preferably those of a general rather than professional character) totalling 12 credits or more.

Education Courses for General Minor

21. INTRODUCTION TO EDUCATION (教育概論). A first course designed to set forth briefly the chief facts and principles in education and to orient the student to the outstanding problems therein.

3 hours; one semester.

54. (41) EDUCATION AND SOCIAL PROBLEMS IN CHINA (中國教育與社會問題). A study of education as a social enterprise in relation to various social problems now confronting China.

3 hours; one semester.

55. HISTORY OF WESTERN EDUCATION (西洋教育史). A brief historical survey of the development of educational thought and practice in the West from ancient times to the present.

3 hours; one semester.

66. PRINCIPLES OF SECONDARY EDUCATION (中等教育原理). A general course dealing with the theory and principles underlying secondary education, together with illustrations of their application in China and abroad.

3 hours; one semester.

67. RURAL EDUCATION (鄉村教育). A study of the social background, history, and problems of rural education with special reference to conditions in China.

68. MASS EDUCATION (民衆教育). A study of the social background, problems, and significance of mass education in China.

71. (72) COMPARATIVE EDUCATION (比較教育). A brief study of the contemporary conditions and developments in education in England, France, Germany, the United States, Japan, and Soviet Russia.

3 hours; one semester.

72. EDUCATION AND NATIONAL RECONSTRUCTION (教育與建國). A survey of the use of education as an instrument of political and social reconstruction in such countries as Soviet Russia, Italy, Denmark, Turkey, Japan, India, and the Philippine Islands. Implications for China will be drawn.

3 hours; one semester.

Professional Courses

50. (22) TECHNIQUE AND OBSERVATION OF TEACHING (教學方法與觀察). General teaching method and classroom procedure studied in connection with directed observation of middle school teaching.

Classroom 2 hours, observation 2 hours (3 credits); one semester.

51. FOUNDATIONS OF METHOD AND THE CURRICULUM (方法與課程原論). A study of the fundamental principles underlying all educational method and curriculum making, with special reference to Chinese education in and out of school.

3 hours; one semester.

53. SCHOOL ADMINISTRATION (學校行政). Principles and practice of educational administration applied to the management of a single middle school.

3 hours; one semester.

59. EDUCATIONAL PSYCHOLOGY (教育心理學). A general treatment of the main facts and principles of educational psychology with special reference to the needs of the classroom teacher.

3 hours; one semester.

60. MEASUREMENT IN EDUCATION (教育測驗). The principles of educational measurement applied to the problems of the classroom.

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

63. EDUCATIONAL ADMINISTRATION (教育行政). Principles and practices in the administration of the educational system.

3 hours; one semester.

70. EDUCATIONAL STATISTICS (教育統計學). A practical treatment of elementary statistical procedures and their application to educational and social problems.

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

91. PRACTICE TEACHING (教學實習). Actual classroom teaching under supervision. Open only to Seniors with a Professional Minor in Education. 3 hours of teaching.

3 hours; one semester.

95 c. TEACHING OF ENGLISH (英文教學法). A special course in the methods of teaching English to Chinese students.

3 hours; one semester.

95 d. TEACHING OF HOME ECONOMICS (家政教學法). Same as Home Economics 95d.

3 hours; one semester.

95 e. TEACHING OF SCIENCE (理科教學法). Special methods in the teaching of natural and physical sciences in the middle school.

3 hours; one semester.

99 a-b. THESIS (畢業論文). Individual work under supervision on a selected problem in education. Open only to those Seniors with a Professional Minor in Education who have secured the joint approval of the Department of Education and the major subject department concerned. Approval by the Education Department is limited to those who have shown exceptional ability in educational study or research.

3 hours; two semesters.

Courses in Psychology

21. GENERAL PSYCHOLOGY (心理學概論). A standard introductory course in Psychology, setting forth for the student the main facts and principles of modern scientific psychology and introducing to him, various fields of psychological study and application.

3 hours; one semester.

44 (11). SOCIAL PSYCHOLOGY (社會心理學). A study of the psychology of the individual in his social relations as well as group psychology, with special reference to practical applications in the control of social behavior. This course is required of students majoring in Business Administration or Sociology, and may be elected by other students in any major.

3 hours; one semester.

Western Languages and Literature

Professors Baldwin Lee, Rhoads, and Aiken; Miss Banta, Mrs. Wallace, and Mr. Schlapfer.

The Department of Western Languages and Literature offers courses in the English, French, and German languages, and in Western literature.

In English, the Department offers the usual fundamental courses for freshmen and sophomores; and for students who enter below the freshman English standard, a special preparatory course is prescribed. Additional language courses in the fields of phonetics, oral English, and advanced grammar are available to students in the sophomore class and above. For students who are majoring in English, and for others who have completed their required English courses in good standing, Upper Division English and Western literature courses are given.

The major offered by the Department is designated the Major in English. This affords a broad foundation for later specialization in English literature, while at the same time it gives specific preparation for middle school English teaching. Students electing the Major in English who are looking definitely toward teaching are expected to take the minor in Education. Others majoring in this field are advised to choose either Chinese or one of the social sciences as their minor.

The freshman program for students who plan to take the Major in English is given on page 50, in the program for Arts students. The program for later years follows:

Program for the Major in English

	SEMESTER I		SEMESTER II	
	SUBJECTS	CREDITS	SUBJECTS	CREDITS
SOPHOMORE	Chinese 22a or 23a	3	Chinese 22b or 23b	3
	English 21a	3	English 21b	3
	English 43	1	English 44	1
	English 49a	4	English 49b	4
	Psychology 21 (or Elective)	3	Education 21 (or Elective)	3
	Approved elective	3	Approved elective	3
	Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
		17 $\frac{1}{2}$		17 $\frac{1}{2}$
JUNIOR	Major	9	Major	9
	Minor	3	Minor	3
	Approved electives	6	Approved electives	6
		18		18
SENIOR	Major	9	Major	9
	Minor	3	Minor	3
	Thesis	2	Thesis	2
	Elective	3	Elective	3
		17		17

English

1 a-b. FRESHMAN ENGLISH (第一年級英文). Practical study of sentence and paragraph construction with regular written exercises. Special attention to typical errors in grammar and idiom. Reading of short stories, essays, and poems. Prescribed for all freshmen. A special section selected on the basis of a placement examination will be formed to take care of those entering with a superior command of English.

Classroom 3 hours, laboratory 2 hours (4 credits); two semesters.

21 a-b. SOPHOMORE ENGLISH (第二年級英文). Practice in the more common forms of written expression; extensive readings.

3 hours; two semesters.

41. DEBATE AND ORATORY (辯論與演說). Practical work in the development and presentation of formal speeches. Special attention to debating, extemporaneous discussion, and parliamentary procedure.

Classroom 1 hour, laboratory 2 hours (2 credits); one semester.

43. PHONETICS (語音學). A thoroughly practical course in the production and representation of English speech sound, including (a) the physiological bases of speech, (b) fundamental phonetic principles, (c) systems of sound notation, (d) a study of similarities and variations between English and Chinese vocables, and (e) intensive drill in pronunciation.

2 hours (1 credit); one semester.

44. ORAL ENGLISH (誦讀法). A practical course for the improvement of oral English through practice in reading, recitation, conversation, and informal speeches.

2 hours (1 credit); one semester.

45. CLASSICAL MYTHOLOGY (古代神話). Lectures on the various Greek and Roman deities, their attributes and their significance, and on the exploits of the chief heroes of Greek and Roman legend. Text and outside readings.

2 hours; one semester.

49 a-b. SURVEY OF ENGLISH LITERATURE (英國文學史). English literature from its beginnings studied mainly by direct readings in the light of its social and cultural background.

4 hours; two semesters.

51-52. ADVANCED COMPOSITION (高級作文). A study of the several forms of discourse, with particular attention to advanced expository writing. Readings in the modern essay. Admission only by consent of the instructor.

3 hours; either or both semesters.

53. FUNDAMENTALS IN ENGLISH (高級語文學). An advanced course, treating the subject matter of formal English (including grammar, rhetoric, phonology, and punctuation) from the point of view of the needs of the specializing student and the prospective teacher of English.

3 hours; one semester.

55 a-b. RUSSIAN LITERATURE (俄國文學). A survey of Russian literature since Pushkin, with extensive reading in the fields of fiction, drama, and poetry.

3 hours; one semester.

59. EIGHTEENTH CENTURY ENGLISH LITERATURE (十八世紀英國文學). A study of the literary movements and chief writers of the century, both in poetry and in prose.

3 hours; one semester.

60 a-b. SURVEY OF EUROPEAN LITERATURE (歐洲文學概論). Representative writing in Greek, Latin, Romance, and Germanic languages studied in English translation, with a consideration of their influence on European History development.

3 hours; two semesters.

61. THE CONTEMPORARY ENGLISH NOVEL (現代英文小說). A survey of the more important British and American novels from the beginning of the century to the present time. Emphasis on the characteristic interests and the essential qualities of style of the individual authors.

3 hours; one semester.

62. CONTEMPORARY ENGLISH DRAMA (現代英文戲劇). A survey of British and American drama from the beginning of the century to the present time. An intensive study of the plays of Galsworthy, Barrie, and Shaw, and reading of representative plays by other contemporary playwrights, English, Irish, and American.

3 hours; one semester.

65. THE SHORT STORY (短篇小說). The content and technique of the short story, with particular reference to recent trends.

3 hours; one semester.

68 a-b. THE EIGHTEENTH AND NINETEENTH CENTURY NOVEL (十八及十九世紀英文小說). A survey of the works of the more important English novelists from the time of Richardson to the beginning of the twentieth century. Lectures on social and literary background. Extensive reading.

3 hours; two semesters.

69. ENGLISH POETRY (詩學). Extensive reading of poetic masterpieces, exemplifying the different types of poetry and the characteristics of the greater poets of today and of the past.

3 hours; one semester.

70. CONTEMPORARY POETRY (現代詩學). A study of the trends in modern English poetry as exemplified in the work of contemporary British and American poets.

3 hours; one semester.

71 a-b. CONTEMPORARY DRAMA (現代戲劇). Rapid reading of the chief dramatists of England, America, and the Continent, beginning with Ibsen.

3 hours; two semesters.

72. CONTEMPORARY EUROPEAN LITERATURE (現代歐洲文學). A survey of the non-dramatic literature of the continent in the present time, with special reference to the novel.

3 hours; one semester.

73. EUROPEAN DRAMA (歐洲戲劇). The drama from its origins in Greece down to the beginning of the eighteenth century.

3 hours; one semester.

74. EUROPEAN DRAMA (歐洲戲劇). A continuation of 73, including the drama in Europe of the 18th and 19th centuries.

3 hours; one semester.

75. POEMS OF THE ROMANTIC MOVEMENT (浪漫主義運動的詩). A course designed to acquaint the student with representative work of the greatest period of English lyric poetry.

3 hours; one semester.

76. VICTORIAN POETRY (維多利亞時代的詩). A study of the major poets of the period, with special attention to Tennyson and Browning.

3 hours; one semester.

79 a-b. LITERARY CRITICISM (文學評批). A study of the principles of criticism, based upon extensive reading of critical literature in conjunction with original literary works.

3 hours; two semesters.

81. SHAKESPEARE (莎士比亞). A study of some of the principal plays.

3 hours; one semester.

82. SHAKESPEARE (莎士比亞). A continuation of 81.

3 hours; one semester.

83. DANTE: AN INTRODUCTORY STUDY (但丁導論). An appreciation of mediaeval life and thought, and of Dante's expression of it in the Divine Comedy and other selected writings.

3 hours; one semester.

87. GOETHE: AN INTRODUCTORY STUDY (哥德導論). The reading of Goethe's chief novels and dramas against the background of his life and activities in other fields.

3 hours; one semester.

95 c. THE TEACHING OF ENGLISH (英文教學法). A special methods course in the teaching of Chinese students.

3 hours; one semester.

99 a-b. THESIS (畢業論文). Individual work under supervision on a selected problem in English (language, literature, or teaching). Required in their senior year of all students majoring in English.

2 hours; two semesters.

French

21 a-b. BEGINNING FRENCH (初級法文). Essentials of grammar; frequent written and oral drill; intensive reading.

Classroom 2 hours, laboratory 2 hours (3 credits); two semesters.

31 a-b. SECOND-YEAR FRENCH (第二年法文). Thorough review of grammar; written and oral exercises; extensive readings in modern French prose.

Classroom 2 hours, laboratory 2 hours (3 credits); two semesters.

German

21 a-b. BEGINNING GERMAN (初級德文). Essentials of grammar; frequent written exercises; oral and written drills; memory work; simple prose readings.

Classroom 2 hours, laboratory 2 hours (3 credits); two semesters.

31 a-b. SECOND-YEAR GERMAN (第二年德文). Grammar review; vocabulary building; extensive readings.

Classroom 2 hours, laboratory 2 hours (3 credits); two semesters.

Social Sciences

THE DEPARTMENT OF SOCIAL SCIENCES supervises and promotes the study of History, Government, and Sociology. A large and rapidly growing collection of books on these fields is available in the University Library. The teachers of Sociology with interested students and others maintain a continuous survey of communities near the University through the Lingnan Social Research Institute. Government bureaus and welfare agencies in Canton cooperate with the Department in the study of particular problems.

Students planning to major in any of the fields in this Department will take the following program in their Freshman year:

SUBJECTS	CREDITS	SUBJECTS	CREDITS
Chinese 1a	3	Chinese 1b	3
English 1a	4	English 1b	4
Economics 10a	3	Economics 10b	3
History 2a	3	History 2b	3
Government 5	4	Sociology 22	4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/>		<hr/>
	17 $\frac{1}{2}$		17 $\frac{1}{2}$

In the Sophomore year, besides the subjects required of all Arts students, the student must take at least one introductory course in the division of the Social Sciences in which he plans to major, i.e., History 31ab, Government 31ab, and Sociology 31ab, respectively.

In the Upper Division a student will take 30 or more credits (including Thesis) in one of these fields for his major and 12 or more credits in an approved field for his minor. A program showing the work in each field is given below.

Sophomore Program for History

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
" 31a	3	" 31b	3
Science Survey	4	Science Survey	4
Approved Elective	2	Approved Elective	2
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/>		<hr/>
	18 $\frac{1}{2}$		18 $\frac{1}{2}$

Sophomore Program for Government

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
Government 31a	3	Government 31b	3
Science Survey	4	Science Survey	4
Approved Electives	2	Approved Electives	2
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/>		<hr/>
	18 $\frac{1}{2}$		18 $\frac{1}{2}$

Sophomore Program for Sociology

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
Sociology 31a	3	Sociology 31b	3
Science Survey	4	Science Survey	4
Approved Electives	2	Approved Electives	2
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<hr/>		<hr/>
	18 $\frac{1}{2}$		18 $\frac{1}{2}$

Junior and Senior Program for History, Government, and Sociology**JUNIOR YEAR**

SEMESTER I		SEMESTER II	
Major	6	Major	6
Minor	3	Minor	3
Approved Electives	9	Approved Electives	9
	<hr/>		<hr/>
	18		18

SENIOR YEAR

Major, including Thesis	9	Major, including Thesis	9
Minor	3	Minor	3
Approved Electives	4	Approved Electives	4
	<hr/>		<hr/>
	16		16

Students who wish to prepare to teach any one of the Social Sciences in middle schools may, by choice of courses in the Sophomore year, arrange to take the professional minor in Education, 18 Upper Division credits, in addition to their major in one of the Social Sciences.

One may as a further alternative select a group of courses covering all these fields, totaling 36 credits as a "Teaching Major in the Social Sciences" provided he also takes the Professional Minor in Education. Students who take the Professional Minor in Education will receive recommendations as better fitted to teach than those who have omitted Education from their program. (For requirements in Professional Minor in Education, see "Education").

Sophomore Program for the Major in the Teaching of Social Sciences

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
Government 31a	3	Government 31b	3
or Sociology 31a	3	or Sociology 31b	3
Education 21	3	Psychology 21	3
Science Survey	4	Science Survey	4
	<hr/>		<hr/>
	19		19

Sophomore Program for the Teaching of History

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
" 31a	3	" 31b	3
Education 21	3	Psychology 21	3
Science Survey	4	Science Survey	4
	<hr/>		<hr/>
	19		19

Sophomore Program for the Teaching of Government

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
Government 31a	3	Government 31b	3
Education 21	3	Psychology 21	3
Science Survey	4	Science Survey	4
	<hr/>		<hr/>
	19		19

Sophomore Program for the Teaching of Sociology

Chinese 22a or 23a	3	Chinese 22b or 23b	3
English 21a	3	English 21b	3
History 21a	3	History 21b	3
Sociology 31a	3	Sociology 31b	3
Education 21	3	Psychology 21	3
Science Survey	4	Science Survey	4
	<hr/>		<hr/>
	19		19

Junior and Senior Program for Professional Minor in Education

Major	9	Major	9
Minor	6	Minor	6
Approved Electives	3	Approved Electives	3
	<hr/>		<hr/>
	18		18
Major	6	Major	9
Minor	3	Minor	3
Approved Electives	4	Approved Electives	4
	<hr/>		<hr/>
	16		16

Government

Professor Y. C. Hoe, Dr. C. W. Wong, and Mr. J. H. Lo

TWO MAJORS ARE OFFERED IN GOVERNMENT: one as a preparation for law or government service with a minor in a related field, and the other in the Teaching of Government with a professional minor in Education.

2. PARTY PRINCIPLES (黨義). Examination Only.

5. PRINCIPLES OF GOVERNMENT (政治原理). An introductory study of the fundamental principles, functions, and problems of government.

4 hours; one semester.

31 a-b. COMPARATIVE GOVERNMENT (西洋政體之比較). A comparative study of the political institutions of the leading countries and the problems confronting them.

3 hours; two semesters.

51 a-b. MUNICIPAL GOVERNMENT (市政學). A general study of the modern municipality in its various aspects; principles and methods of municipal administration.

3 credits; two semesters

53. AMERICAN GOVERNMENT (美國政府). Interpretation of the American Constitution with a study of leading cases illustrating the fundamental principles of the American system.

3 hours; one semester.

55. INTRODUCTION TO PUBLIC ADMINISTRATION (行政學). A general survey of the problems of public administration; organization, personnel, control, and finance; applications to the situations in China.

3 hours; one semester.

59. INTRODUCTION TO POLITICAL PARTIES (政黨學). The organization and methods of action of political parties in the United States and European countries; the function of the party system in a democracy.

3 hours; one semester.

61. ELEMENTS OF JURISPRUDENCE (法理學). Scope and method of jurisprudence; the meaning, sources, and object of law; analysis of legal rights; the nature and elementary principles of private, public, and international law.

3 hours; one semester.

63 a-b. INTERNATIONAL LAW (國際公法). The origin, development, and actual applications of the principles of law governing the intercourse of states in peace and war.

3 hours; two semesters.

65 a-b. INTRODUCTION TO THE STUDY OF LAW (法學導論). General principles of Law—common law and civil law—and actual practice. More study of cases in second semester.

3 hours; two semesters.

66. CONSTITUTIONAL LAW (憲法學). The nature of constitutions; the distribution and limitation of powers; fundamental constitutional rights.

3 hours; one semester.

69. CHINESE CRIMINAL LAW (中國刑法). A comparative study of the main features of the new Chinese criminal code and codes of other countries.

3 hours; one semester.

70. THE CHINESE CIVIL CODE (中國民事訴訟). A comparative study of the principles of the new code and the present organization for the administration of civil justice in China.

3 hours; one semester.

71 a-b. HISTORY OF WESTERN POLITICAL THOUGHT (西洋政治思想史). The development of Western political theories from the classical to the present time and their relation to social and political movements and intellectual currents.

3 hours; one semester.

72 a-b. HISTORY OF CHINESE POLITICAL THOUGHT (中國政治思想史). Chinese political ideas from the ancient period to the present day, with special emphasis on the reading of original sources.

3 hours; two semesters.

75. CONTEMPORARY WORLD POLITICS (近時國際政治). The development of principles and policies in the conduct of foreign relations; such factors as surplus population, overproduction, too rapid consumption of raw materials; the market shaping foreign policy; policies of the Great Powers.

3 hours; two semesters.

76. PROBLEMS OF THE PACIFIC (太平洋國際問題). Survey of the relations, political and otherwise, among the countries bordering on the Pacific Basin. Sino-Japanese relations will be emphasized.

3 hours; one semester.

83. CHINA'S TREATY RELATIONS (中國國際條約). A careful analysis of selected treaties (actual documents) and an interpretation of their significance for China. Prerequisite: History 21ab.

3 hours; one semester.

99 a-b. THESIS (畢業論文).

2 hours; two semesters.

History

Professors H. C. Brownell and I. Y. Wong; Mr. S. K. Lei.

TWO MAJORS ARE OFFERED IN HISTORY: one as a preparation for public life with a minor in a related field, and the other in the Teaching of History, with the professional minor in Education.

1 a-b. OUTLINE OF HISTORY (世界通史). A rapid survey of human history from prehistoric times to the nineteenth century.

3 hours; two semesters.

2 a-b. EUROPE IN THE HALF CENTURY BEFORE THE WORLD WAR (世界大戰前五十年史). The relations and internal progress of the Great Powers, national imperialism, and the causes of the World War.

3 hours; two semesters.

11 a-b. CHINESE CIVILIZATION FOR OVERSEA STUDENTS (中國文化). This course is open to entering oversea students only. The first semester's work deals with the geographical background and the historical development of China. In the second semester the course treats in topical order the development and outstanding characteristics of traditional Chinese institutions and life—political, economic, social, religious, aesthetic, and intellectual—for an understanding and critical evaluation of the cultural heritage. Special emphasis is given to the changing patterns of life in China.

3 hours; two semesters.

21 a-b. MODERN CHINA'S FOREIGN RELATIONS (中國近代外交史). The Manchu Dynasty with special emphasis on foreign relations.

3 hours; two semesters.

23. PRE-MANCHU FOREIGN RELATIONS OF CHINA (中國古代外交史). From the Han Dynasty to the end of Ming. Background for History 21 a-b.

3 hours; one semester.

31 a-b. THE WORLD AT WAR AND SINCE (世界大戰後史). A discussion of war guilt, the political phases of the struggle, the settlement, the League of Nations, Germany and Italy revolutionized, and the prospects for peace.

3 hours; two semesters.

34. ECONOMIC HISTORY OF MODERN EUROPE (近代歐洲經濟史). The growth of agriculture, industry, and commerce in the more important countries and the vital changes in economic organization.

3 hours; one semester.

41. THE CIVILIZATION OF GREECE AND ROME (希臘羅馬文化史). The foundations of Western civilization, great personalities, and the relation of classical achievements in politics, art, literature, and science to modern culture.

3 hours; one semester.

45. HISTORY OF EUROPEAN CIVILIZATION SINCE THE RENAISSANCE (文藝復興後之歐洲文化史). Survey of European Civilization from the Renaissance to the 19th century.

3 hours; one semester.

61. THE BEGINNINGS OF MODERN JAPAN (日本近世史). Social background, early foreign intercourse, the opening of Japan, her revolution, and the abolition of feudalism.

3 hours; one semester.

62. IMPERIAL JAPAN TO 1931 (日本近世史). The Meiji system and constitutional progress in that and the Taisho and Showa eras; foreign relations, especially with China; a brief survey of social and economic progress.

3 hours; one semester.

63. CULTURAL AND NATIONAL CHARACTERISTICS OF JAPAN (日本之文化及民族性). The origins and development of culture, a descriptive and critical study with comparisons with Chinese and other cultures (taught in Chinese).

3 hours; one semester.

74 a-b. ENGLISH CONSTITUTIONAL HISTORY (英國憲法史). The evolution of English political institutions from the earliest times with emphasis on the democratization of England in the last hundred years. Required of Government majors.

3 hours; two semesters.

75. DEVELOPMENT OF CIVILIZATION IN ENGLAND IN THE 19TH CENTURY (英國十九世紀之文化). A study of various aspects of national life; political, social, literary, and scientific, aesthetic and religious, and some leading personalities.

3 hours; one semester.

78 a-b. HISTORY OF RUSSIA (俄國史). The geography, people, and historical background of modern Russia; the revolutions of 1905 and of March and November 1917, and conditions during the Soviet regime.

3 hours; two semesters.

81. HISTORY OF THE UNITED STATES (美國史). The founding and expansion of the nation; problems of federalism and the basis of democracy.

3 hours; one semester.

82. HISTORY OF THE UNITED STATES (美國史). Internal growth; political, social, racial, and international problems down to the present.
3 hours; one semester.
85. ANCIENT CHINESE HISTORY TO 222 B. C. (中國上古史).
3 hours; one semester.
86. MEDIEVAL CHINESE HISTORY FROM 222 TO 906 A. D. (中華中古史).
3 hours; one semester.
87. CHINESE HISTORY FROM 906 TO 1644 (中國近古史).
3 hours; one semester.
88. HISTORY OF THE MANCHU DYNASTY (清史).
3 hours; one semester.
89. THE REPUBLIC OF CHINA (中華民國史).
3 hours; one semester.
- 99 a-b. THESIS (畢業論文).
2 hours; two semesters.

Sociology

Professor Y. L. Wu; Miss T. F. Wong and Mr. K. Mok.

TWO MAJORS ARE OFFERED IN SOCIOLOGY: one as a preparation for social service with liberal electives to increase its cultural value, and the other in the Teaching of Sociology with the professional minor in Education.

22. INTRODUCTION TO SOCIOLOGY (社會學概論). General introduction to social organization, social control, social evolution, and social pathology.
4 hours; one semester.
- 31 a-b. PRINCIPLES OF SOCIOLOGY (社會學原理). Principles of sociology: illustrated from the writings of the leading sociologists; readings in original sources and reports.
3 hours; one semester.
34. INTRODUCTION TO SOCIAL ANTHROPOLOGY (文化人類學). Principles and methods of social anthropology as applied to the study of primitive tribes.
3 hours; one semester.

35. SOCIAL PATHOLOGY (社會病態). Social pathology with special reference to China.
3 hours; one semester.
40. (25) THE FAMILY (家庭). Institution of marriage and the family system; modern tendencies and problems.
3 hours; one semester.
44. SOCIAL PSYCHOLOGY (社會心理學). Human psychology with emphasis on man's behavior as a member of society. (Identical with Psychology 44).
3 hours; one semester.
45. LINGUISTICS (語言). Principles and methods in the study of the languages of primitive tribes.
3 hours; one semester.
52. PRIMITIVE RELIGIONS (原始宗教). Religion as a means of social control in primitive societies.
3 hours; one semester.
54. POVERTY AND CHARITY (貧窮與救濟). Causes and effects of poverty; preventive and remedial measures.
3 hours; one semester.
62. ANTHROPOLOGY (人類學). Prehistoric men and their culture.
3 hours; one semester.
63. CULTURAL EVOLUTION (文化進化論). Principles of the evolution of culture.
3 hours; one semester.
65. RURAL SOCIOLOGY (鄉村社會學). Principles of rural sociology.
3 hours; one semester.
67. URBAN SOCIOLOGY (都市社會學). Principles of urban sociology.
3 hours; one semester.
69. SOCIAL CASE WORK METHOD (個案研究方法). Principles and methods in welfare work, based on actual case records of medical need, delinquency of children, family troubles.
3 hours; one semester.
70. COMMUNITY ORGANIZATION (社區組織). Community organizations: philanthropic, recreational, health, mass education, public welfare, and social coordination agencies.
3 hours; one semester.

72. CRIMINOLOGY AND PENOLOGY (犯罪文). The causes of crime; origin and development of the penal system; modern principles and their application.

3 hours; one semester.

75. SOCIAL SERVICE ADMINISTRATION (社會服務學). Principles and practice of social service administration work. Students are required to do field work in some social service agencies in connection with this course.

3 hours; one semester.

81, 82. RESEARCH METHODS IN SOCIOLOGY (社會研究方法). A study of modern technical methods as applied to sociological investigations.

3 hours; one or two semesters.

85, 86. SOCIAL SURVEY (社會調查). Principles and practice of social survey. Students are required to participate in some actual survey projects of the Department.

3 hours; one or two semesters.

99 a-b. THESIS (畢業論學).

2 hours; two semesters.

Home Economics

Mrs. P. H. Wong and Miss W. P. Loh.

STUDENTS MAY ELECT separate courses or a minor in Home Economics. The following courses are recommended for (1) minor requirements, (2) minor electives, and (3) non-minor electives for students who are interested in the art of personal efficiency and home making:

Courses Offered in the Field of Home Economics

Description	Course No.	Credits	Minor requirements	Minor electives	Non-Minor electives
General Home Economics	10ab	3-3			x
Personal Hygiene	47	1		x	x
Parent Education and Preschool Child Problems	70	3		x	x
Nutrition	71 a-b	3-3	x		
Clothing and Textiles	63	3	x		
House Furnishing	64	3	x		
Child Care and Training	81	3	x		
Home Management	82	3	x		
Experimental Cookery	53	3		x	
Diet in Diseases	85	3		x	
Clothing Design and Construction	62	3		x	
Home Economics Education	95	3		x	

10 a-b. GENERAL HOME ECONOMICS (家政學概論). A general course dealing with personal care, of clothing selection and care of clothing, household decoration, social entertainment and leisure, food, child care and training, budget, personality development, health problems in the home.

Classroom 2 hours; laboratory 2 hours (3 credits); two semesters.

31 a-b (62, 63). FOOD SELECTION AND PREPARATION (食物選擇與配製). The study of the composition, nutritive value, production, and economic importance of food in relation to selection, preparation, and serving of an adequate daily meal.

Classroom 2 hours, laboratory 2 hours (3 credits); two semesters.

47. PERSONAL HYGIENE (個人衛生). A course for women students.

1 hour; either semester.

53. EXPERIMENTAL COOKERY (烹飪實習). This course requires a laboratory fee of \$5.00.

3 credits; one semester.

62. (22). CLOTHING DESIGN AND CONSTRUCTION (衣服與紡織). Principles of selection and construction applied in the planning and making of garments including the economical and hygienic problems of clothing.

3 hours; one semester.

63 (23). CLOTHING AND TEXTILES (衣服與紡織). This course aims to develop independence, initiative, originality, and art in planning, designing, and making garments for different types of figures; training in handling difficult materials such as wool, fur, laces, embroidery, etc.

Classroom 1 hour, laboratory 4 hours (3 credits); one semester.

64 (91). HOUSE FURNISHING (家庭佈置). A study of the points to be considered in selecting and decorating a home for the moderate income group, from the stand-point of comfort, beauty, and economy.

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

70. PARENT EDUCATION AND PRE-SCHOOL CHILD PROBLEMS (未及學齡兒童教育問題).

3 hours; one semester.

71 a-b. NUTRITION (營養學). A scientific study of the value of food in relation to health of the individual and the family group. Projects in animal experimentation and diet planning.

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

75. PRINCIPLES OF DIETETICS (營養學原理). A general study of the value of food in relation of health.

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

76. NUTRITION PROBLEMS (營養問題).

Classroom 2 hours, laboratory 3 hours; one semester.

81 (72). CHILD CARE AND TRAINING (兒童教育). A study of the growth, development, and training of young children, and the influence of environment in shaping personality. Prerequisite: Psychology 21.

Classroom 3 hours, laboratory 2 hours (4 credits); one semester.

82. HOME MANAGEMENT (家政處理). An application of the principles of scientific management to the home, management of household operations and finances, family and community relationship.

3 hours; one semester.

85. DIET IN DISEASES (食物與家政). A study of diets for abnormal conditions. A preliminary course for students who wish to become hospital dietitians or nutrition specialists.

Classroom 2 hours, laboratory 2 hours; one semester.

88. INSTITUTIONAL MANAGEMENT (公共機關管理).

Classroom 2 hours, laboratory 2 hours; one semester.

95 (83). HOME ECONOMICS EDUCATION (家政教育).

3 hours; one semester.

Mathematics

Professor MacDonald; Messrs. K. F. Kwong and T. F. Wong.

THE WORK IN MATHEMATICS aims to develop a logical power and a spirit of investigation and to give a thorough grounding of fundamental courses on which may be safely built a superstructure of pure or applied mathematical knowledge for teaching or technical uses. All courses are problem courses.

A small but well chosen and growing library collection of standard works and textbooks leading into almost all fields of Mathematics offers good opportunities for reference and supplementary study.

3 a-b. INTRODUCTION TO MATHEMATICAL ANALYSIS (初級數理分析)
A survey of the field of elementary Mathematics for Freshman students,

introducing them to the first principles of college algebra, trigonometry, calculus, and analytic geometry. Applications are emphasized.

4 hours; two semesters.

6 a-b. CALCULUS FOR ENGINEERS (工程數理). A course primarily for the Engineering Freshman, to cover the essentials of calculus. Students should have a good knowledge of trigonometry and analytic geometry before entering the course.

4 hours; two semesters.

13 a-b. MATHEMATICAL ANALYSIS (高級數分理). A second course presupposing a knowledge of Mathematics 3 a-b, and developing particularly analytical methods and the principles and applications of calculus.

4 hours; two semesters.

21. MATHEMATICS OF FINANCE (財政數理). A course for students of Business Administration, to cover the underlying mathematics of interest, annuities, bonds, sinking funds, depreciation, investments. Prerequisite: Algebra including progressions and logarithms.

3 hours; one semester.

22. MATHEMATICS OF INSURANCE (保險數理). A course for students of Business Administration, treating the mathematical principles of insurance. It logically follows Mathematics 21 or its equivalent.

3 hours; one semester.

31. ALGEBRA (高級代數). Selected topics, such as permutations and combinations, scales of notation, mathematical induction, series, undetermined coefficients, continued fractions, summation of series, theory of numbers, probability.

3 hours; one semester.

32. THEORY OF EQUATIONS (方程式論). Such topics as roots and coefficients, symmetric functions, transformation of equations, Descartes' rule of signs, Sturm's theorem, solution of higher equations, determinants, elimination.

3 hours; one semester.

51 a-b. ADVANCED CALCULUS (高級積分). Special topics such as integration method, multiple integrals, partial differentiation, vector analysis, differential equations, improper integrals, calculus of variations, with attention to applications to geometry and physics. Prerequisite: Mathematics 3 a-b and 13 a-b.

4 hours; two semesters.

54. THEORETICAL MECHANICS (理論力學). This course is the same as Physics 54 and is ordinarily given by a member of the Department of Physics. For description, see Physics 54.

3 hours; one semester.

55 (25). ASTRONOMY (天文學入門). Descriptive Astronomy with problem work and naked-eye studies of the sky.

3 hours; one semester.

57. DIFFERENTIAL EQUATIONS (微分方式程論). A drill course on methods of solution of differential equations, ordinary and partial.

3 hours; one semester.

58. INFINITE SERIES (無窮級數). An elementary course on series, their convergence and divergence, operations with series, functions represented by series.

3 hours; one semester.

63. GEOMETRY (高級幾何). Topics in plane and solid analytic geometry with an introduction to advanced methods.

3 hours; one semester.

67. PROBABILITY AND STATISTICS (估計學與統計學). An introduction to the theory of probability with applications.

3 hours; one semester.

Music

Mrs. W. E. MacDonald, Mrs. J. O. Thomson.

WHILE A DEPARTMENT OF MUSIC has not been organized to offer a minor or a major in Music, a few courses are offered each year. The description following Music 17 applies to courses 15 and 16 as well as to 17. Each is a one credit course.

15. MEN'S GLEE CLUB (男唱歌團).

16. WOMEN'S GLEE CLUB (女唱歌團).

17. A CAPELLA CHOIR (聖詩團). Training in voice placement, vocalizing, and other technique. Each course open to students from all classes, subject to vocal examination by instructor, and may be repeated for credit several semesters. Not more than two credits any semester, but any course may be taken in addition to a full schedule of 19 hours or less. Rehearsals and public performances.

Rehearsals, each course, 3 hours (1 credit); one semester.

21 (5). MUSIC APPRECIATION (音樂之欣賞). An introductory course covering elements, forms and types of instrumental and vocal music; characteristics of various instruments; life and work of great composers. An elementary knowledge of music is required but not the ability to play an instrument. Open to Freshmen.

3 hours; one semester.

22 (6). HISTORY OF MUSIC (音樂史). Folk music, classical music, romantic movement, programme music, modern music; emphasis on composers and their work; characteristics and spirit of different periods. An elementary knowledge of music is required but not the ability to play an instrument.

3 hours; one semester.

25 a-b. ELEMENTARY HARMONY (初級和聲學). This course familiarizes the student with the elementary construction of musical compositions and aims to interest him in a further study of music. The ability to play ordinary pieces on the piano is required.

3 hours; two semesters.

Philosophy

STUDENTS MAY ELECT separate courses in Philosophy. Most of the Upper Division courses are arranged in a two year cycle. Courses numbered from 51 to 59 are planned primarily for Juniors. Courses numbered from 61 to 69 are open to either Juniors or Seniors. Courses numbered 71 and above are open to Seniors only.

21. INTRODUCTION TO PHILOSOPHY (哲學導論). An introductory course dealing with the nature and import of philosophy, the problems of metaphysics, epistemology, and value.

3 hours; one semester.

22. ETHICS (倫理學). The origin and development of morality; typical ethical theories; modern ethical problems.

3 hours; one semester.

51. ANCIENT CHINESE PHILOSOPHY (中國古代哲學). A careful and critical study of pre-Tsin thoughts: Taoism, Confucianism, and other types.

3 hours; one semester.

52. MODERN CHINESE PHILOSOPHY (中國近代哲學). The origin and basis of Neo-Confucianism from the Sung to the Ching dynasty, with a comparison with similar types of Western philosophy.

3 hours; one semester.

55. ANCIENT AND MEDIAEVAL WESTERN PHILOSOPHY (西洋古代及中古哲學史). A general survey of the development of Western philosophy from the early Greeks to mediaeval scholasticism.

3 hours; one semester.

56. MODERN WESTERN PHILOSOPHY (西洋近代哲學史). A continuation of course 55, from the philosophy of the Renaissance to Kantianism.

3 hours; one semester.

64. PHILOSOPHY OF RELIGION (宗教哲學). The meaning and value of religion; the problem of God, of immortality, of the volition of man; the nature and evolution of religious consciousness.

3 hours; one semester.

65. TAOISM (道家哲學). Historical development of Taoistic God and its formation into a religious system. Discussion and critical evaluation.

3 hours; one semester.

66. BUDDHISM (佛家哲學). The story of Gautama and his message. The spread of Buddhism to other parts of Asia, its transformations, and its present outlook.

3 hours; one semester.

Physics

Professors Knipp, Hsu, Ch'u, and Feng; Miss C. L. Kao and Mr. T. F. Wong.

THE DEPARTMENT OF PHYSICS occupies one floor and a half of the Willard Straight Science Hall. Its laboratory has a wide range of apparatus for undergraduate laboratory courses and for research, and valuable equipment for radio measurements which was presented to the University by the Ying Sheh (英社), the graduating class of 1931. The Science Library contains many of the best physics books published in English and some recent outstanding German books. It has current issues of twenty-five physics journals published in America and Europe and back files of a number of them.

Broadcasting Station: The department operates a 75-watt broadcasting station, which broadcasts lectures and music. It also operates a short-wave amateur station, XU6LN, through which regular communication is maintained with amateurs in Asia and overseas.

Majors: The department offers two undergraduate majors, one a professional major and the other a teaching major. The purpose of the professional major is to qualify the student (a) to enter upon industrial employment which requires a knowledge of the fundamentals of electrical engineering and of radio communication, and (b) to pursue graduate study in physics. The teaching major is designed for students who plan to teach physics after graduation.

Courses: The lower-division courses of the two majors include the following: *General Physics, Mechanics, Heat and Elementary Thermodynamics, Sound and Light, and Electricity and Magnetism.* The upper-division courses place special emphasis upon Applied Physics. In this connection lecture and laboratory courses are offered in: *Direct-Current and Alternating-Current Machinery, Electric Oscillations, and Electron Tubes.* Also a lecture course is offered in *Alternating-Current Circuit Analysis.*

The other upper-division courses are of a more theoretical nature. These are: a lecture and laboratory course in *Physical Optics*, and lecture courses in *Advanced Mechanics, Heat and Thermodynamics*, and an *Introduction to Modern Physics.* The course in Advanced Laboratory Practice provides laboratory practice with more difficult experiments. It is aimed: (a) to acquaint the student with the use of electron tubes in industry, (b) to train him in preparing apparatus for photo-electric, high-vacuum, and X-ray measurements, and (c) to prepare him to carry on individual research.

Students wishing to take either major in Physics should follow the program specified on page 50 for Freshmen majoring in Chemistry or Physics, and the program given below for the Sophomore year. Separate programs are given for the Upper Division in each major.

The upper-division courses, with the exception of 63 a-b and 64 a-b, are offered in alternate years. The group of courses offered in any one year are taken both by Juniors and Seniors. All of the upper-division courses are to be considered as required courses for students taking either the professional or the teaching major, unless consent to omit a course is obtained from the Adviser. Students who take the professional major are advised to choose their electives from among the following courses: Chemistry 12, 51, and 82, and Mathematics 51. Those who take the teaching major should take the professional minor in Education and should arrange, if possible, to take Education 21 in their Sophomore year.

Research and Advance Study: The department has facilities for research by staff and students and is prepared to offer graduate courses of limited scope and an opportunity for research to students who have received the B.S. degree. The graduate courses listed below are those which the department is prepared to offer to qualified applicants. No more than two courses will be offered in any one semester.

1 a-b. INTRODUCTION TO PHYSICS (物理學概要). A general course for students who have not satisfied the entrance requirement in physics and who intend to major in physics, chemistry, biology, agriculture, engineering, or medicine. Lab. fee, \$7.50.

Classroom 4 hours, laboratory 3 hours (4 credits); two semesters.

2 a-b (5 a-b). **OUTLINE OF PHYSICS (物理學大綱)**. A general course for students majoring in engineering or medicine who have satisfied the entrance requirement in physics. Prerequisite: entrance physics. Lab. fee, \$7.50.

Classroom 4 hours, laboratory 3 hours (5 credits); two semesters.

3 (7). **AGRICULTURAL PHYSICS (農業物理學)**. For students majoring in agriculture who have satisfied the entrance requirement in physics or who have not taken Physics 1 a-b. Prerequisite: entrance physics. Lab. fee, \$7.50.

Classroom 3 hours, laboratory 3 hours (4 credits); one semester.

4 a-b. **GENERAL PHYSICS (普通物理學)**. A general course for students majoring in physics, chemistry, or biology, who have satisfied the entrance requirement in physics. Prerequisite: entrance physics. Lab. fee, \$7.50.

Classroom 3 hours, laboratory 3 hours (4 credits); two semesters.

Note. Important. In the case of each of the above courses, if the student has not satisfied the entrance requirement in mathematics, he must enroll at the same time for the freshman courses in mathematics which are required in his particular major.

11. **HEAT AND ELEMENTARY THERMODYNAMICS (熱及初等熱力學)**. To be taken by students majoring in physics and chemistry. Prerequisites: Physics 1 a-b or 2 a-b or 4 a-b, and Mathematics 3 a-b. Lab. fee, \$5.00.

Classroom 3 hours weekly, laboratory 3 hours biweekly (3½ credits); one semester.

12. **MECHANICS AND PROPERTIES OF MATTER (力及物性學)**. To be taken by students majoring in physics. Prerequisites: Physics 1 a-b or 2 a-b or 4 a-b, and Mathematics 3 a-b. Lab. fee, \$5.00.

Classroom 3 hours weekly, laboratory 3 hours biweekly (3½ credits); one semester.

13. **SOUND AND LIGHT (聲與光學)**. To be taken by students majoring in physics. Prerequisites: Physics 1 a-b or 2 a-b or 4 a-b, and Mathematics 3 a-b. Lab. fee, \$5.00.

Classroom 3 hours weekly, laboratory 3 hours biweekly (3½ credits); one semester.

14. **ELECTRICITY AND MAGNETISM (電磁學)**. To be taken by students majoring in physics and chemistry. Prerequisites: Physics 1 a-b or 2 a-b or 4 a-b, and Mathematics 3 a-b. Lab. fee, \$5.00.

Classroom 3 hours weekly, laboratory 3 hours biweekly (3½ credits); one semester.

51. **ALTERNATING-CURRENT CIRCUIT ANALYSIS (交流電路分析)**. Single-phase and polyphase alternating-currents, and their treatment by complex quantities. Electric and magnetic fields of force. Prerequisites: Physics 14 and Mathematics 13 a-b.

Classroom 3 hours (3 credits); one semester.

52. **INTRODUCTION TO MODERN PHYSICS (現代物理學概要)**. Experimental evidence of the existence of the electron. X-radiation, radioactivity, the photo-electric effect, the Rutherford-Bohr theory of the atom, and kindred subjects. Prerequisites: Physics 11-14 and Mathematics 13 a-b.

Classroom 3 hours (3 credits); one semester.

53. **ADVANCED MECHANICS (高等力學)**. Statics of a particle and of rigid bodies. Dynamics of a particle. The general principles of dynamics. Prerequisites: Physics 11-14 and Mathematics 13 a-b.

Classroom 3 hours (3 credits); one semester.

54. **THERMODYNAMICS (熱力學)**. Prerequisites: Physics 11-14 and Mathematics 13 a-b.

Classroom hours (3 credits); one semester.

61 a-b. **ELECTRIC OSCILLATIONS (電振動)**. Free and forced oscillations, resonance, coupled circuits, impedance matching, with applications to radio communication. Lab. fee, \$5.00.

Classroom 2 hours, laboratory 3 hours biweekly (2½ credits); two semesters.

62 a-b. **ELECTRON TUBES (電子管)**. The use of electron tubes in audio-frequency and radio-frequency amplification, as oscillators and in detection, with special applications to radio communication. Prerequisites: Physics 11-14 and Mathematics 13 a-b. Lab. fee, \$5.00.

Classroom 3 hours, laboratory 3 hours biweekly (3½ credits); two semesters.

63 a-b. **ADVANCED LABORATORY PRACTICE (高等實驗)**. Advanced electrical measurements; measurements dealing with ionization phenomena, X-radiation, crystal structure, photo-electricity, and optical and radiation pyrometry. Prerequisites: Physics 11-14 and Mathematics 13 a-b. Lab. fee, \$5.00.

Classroom 1 hour, laboratory 3 hours weekly (2 credits); two semesters.

64 a-b. **ELEMENTS OF ELECTRICAL ENGINEERING (電力工程概要)**. Fundamental principles underlying the construction and use of direct-current and alternating-current generators and motors, and of potential and current transformers. Prerequisites: Physics 11-14 and Mathematics 13 a-b. Lab. fee, \$5.00.

Classroom 3 hours, laboratory 3 hours (4 credits); two semesters.

65. PHYSICAL OPTICS (物理光學). Optical instruments; interference; diffraction; spectroscopy; optics of crystalline media; photography. Prerequisites: Physics 11-14 and Mathematics 13 a-b. Lab. fee, \$5.00.

Classroom 4 hours, laboratory 3 hours weekly (5 credits); one semester.

Courses Primarily for Graduate Students

- 101 a-b. INTRODUCTION TO THEORETICAL PHYSICS (理論物理學概要).
3 hours; two semesters.
- 102 a-b. CLASSICAL ELECTROMAGNETIC THEORY (高等電磁學).
3 hours; two semesters.
- 103 a-b. COMMUNICATION ENGINEERING (電信工程).
3 hours; two semesters.
111. QUANTUM THEORY (量子學).
3 hours; one semester.
112. ATOMIC SPECTRA (原子色光).
3 hours; one semester.
113. MOLECULAR SPECTRA (分子色光).
3 hours; one semester.
114. INTRODUCTION TO MATHEMATICAL PHYSICS (數學物理概要).
3 hours; one semester.
115. X-RADIATION AND CRYSTAL STRUCTURE (愛克絲線與晶體構造).
3 hours; one semester.
116. KINETIC THEORY OF GASES (氣體微子學).
3 hours; one semester.
117. ELECTROMAGNETIC THEORY OF LIGHT (光之電磁學).
4 hours; one semester.
119. SPECIAL EXPERIMENTAL PROBLEMS (專題實驗).

Program for the Professional Major in Physics

FRESHMAN		SOPHOMORE	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
Physics 4 a-b (or Physics 1 a-b)	4	Physics 11 and 13	3½
Math. 3 a-b	4	Physics 12 and 14	3½
Chemistry 1 a-b	5	Math. 13 a-b	4
English 1 a-b	4	Chinese 1 a-b	3
Physical Education	½	Biology 2 and 3	4
		Physical Education	½
	17½		18½
JUNIOR		SENIOR	
Physics 61 a-b and Physics 62 a-b or Physics 64 a-b and Physics 65	2½	Physics 64 a-b and Physics 65	4
Physics 51 and 52 or Physics 53 and 54 Physics 63 a-b	3½	Physics 61 a-b and Physics 62 a-b Physics 53 and 54 or Physics 51 and 52	5
Social Science Electives *	3 or 4	Thesis 99 Electives *	3
			2

* Electives:
Economics 10 a-b 3
or
History 2 a-b 3
or
Government 5 4
and
Soc. 22 4

* The elective courses which are recommended are:
Math. 51 a-b 4
Chemistry 12 a-b 4
Chemistry 51 a-b 4
German

Program for the Major in Teaching of Physics

FRESHMAN		SOPHOMORE	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
Physics 4 a-b (or Physics 1 a b)	4	Physics 11 and 13	3½
Math. 3 a-b	4	Physics 12 and 14	3½
Chemistry 1 a-b	5	Math. 13 a-b	4
English 1 a-b	4	Chinese 1 a-b	3
Physical Education	½	Biology 2 and 3	4
		Physical Education	½
	17½		18½

JUNIOR		SENIOR	
Education	3-5	Education	4-6
Physics 61 a-b and Physics 62 a-b or Physics 64 a-b and Physics 65	2½	Physics 64 a-b and Physics 65 or Physics 61 a-b and Physics 62 a-b	4
Physics 51 and 52 or Physics 53 and 54 Physics 63 a-b	3½	Physics 53 and 54 or Physics 51 and 52 Thesis 99	5
Social Science Electives: Economics 10 a-b or History 2 a-b or Government 5 and Soc. 22	3 or 4 3 3 4 4		2½ 3½ 3 3 2

Religion

Mr. Baker.

STUDENTS MAY ELECT SEPARATE COURSES IN RELIGION.

21. MAKERS OF THE MODERN SPIRIT (西洋近代思想人物). A biographical review tracing modern Western culture from its Christian foundations, and showing the religious significance of movements typified by St. Francis, Luther, Ignatius Loyola, Newton, Rousseau, Wesley, Goethe, Nietzsche, Marx.

2 hours; one semester.

22. RELIGION AND MODERN CULTURE (宗教與近代文化). An attempt to set forth a religious interpretation of our present culture. In four sections: Religion and Personality, Teachings of Jesus, Religion and Society, Spiritual Resources of Religion in Worship.

2 hours; one semester.

51. INTRODUCTION TO THE STUDY OF RELIGION (宗教導論). What religion is; the part it has played and will play in human life.

3 hours; one semester.

56. HISTORY OF RELIGIONS (宗教史). A selection of certain religious systems is made as an introduction to the critical and historical study of religion in its lower and higher forms.

3 hours; one semester.

63. PSYCHOLOGY OF RELIGION (宗教心理學). An investigation by psychological methods of conscience, conversion, prayer, faith, and mysticism.

3 hours; one semester.

64. PHILOSOPHY OF RELIGION (宗教哲學). Identical with Philosophy 64.

3 hours; one semester.

68. RELIGION AND THE PROBLEMS OF YOUTH (宗教與青年問題). A discussion of the problems and difficulties confronting young men and women at present. Can religion, especially Christianity, offer a solution, and what is it?

2 hours; one semester.

71. CHRISTIAN ETHICS (基督教人生哲學). A study of the moral principles in the teaching of Jesus, with the objections raised against them. A comparison with other ethical systems.

3 hours; one semester.

72. THE SOCIAL TEACHING OF THE BIBLE (聖經與社會倫理). The great prophets of Israel denounced injustice and social evils. The teaching of Jesus carried this further on positive lines which were worked out in history by His followers.

2 hours; one semester.

73. THE PERSON OF JESUS CHRIST (耶穌基督人格論). His character, claims, and influence on history. What have men said about him in His relation to God?

2 hours; one semester.

74. CREATIVE PERSONALITIES IN CHRISTIAN HISTORY (教會名人生平). A study of some of the great men and movements that have influenced the life of the world.

2 hours; one semester.

75. THEISM (神之研究). A careful study of the existence of God in the light of modern science and philosophy.

2 hours; one semester.

76. SCIENCE AND RELIGION (宗教與科學). The origin of the conflict; the questions that each claims to answer; reconciliation; the modern outlook.

2 hours; one semester.

77. INTRODUCTION TO THE LITERATURE OF THE OLD TESTAMENT (舊約文學). How the Old Testament was written and put together. An appreciation of the literary, moral, and religious values found in Biblical story, poetry, and narrative.

3 hours; one semester.

78. INTRODUCTION TO THE LITERATURE OF THE NEW TESTAMENT (新約文學). The four Gospels and their writers; the Letters of St. Paul and other documents of the early church. Has modern criticism modified its historical trustworthiness?

3 hours; one semester.

81. CHINESE RELIGIOUS IDEAS (中國宗教思想). Religious ideas as embodied in the philosophy, literature, institutions, and customs of the Chinese people.

3 hours; one semester.

82. CHRISTIANITY AND CHINESE CULTURE (基督教與中國文化). An analytical investigation and re-evaluation of Chinese spiritual inheritances with a view to discovering what influences and contributions Christianity can make towards Chinese life, bearing in mind the nature and truth of Christianity and its influences upon Western thought and civilization.

2 hours; one semester.

85. MODERN CHRISTIAN THOUGHT (近代基督教思想). Christianity as a way of thought, a philosophy of life. Does it offer a reasonably coherent and comprehensive approach on a spiritual basis to the solution of the actual problems of human life?

3 hours; one semester.

86. CHRISTIANITY AND MODERN PROBLEMS (基督教與現代問題). Christianity as a way of life. Has it any solution to offer for our problems of industry, commercial and economic relations, social and international questions? Is the message of God in Christ practicable in the modern world?

1-3 hours; one semester.

Sociology

The work in Sociology is a part of that done by the Department of Social Sciences, so the programs for majors and the description of courses are given on pages 98, 99, and 100, in the section devoted to that Department.

Survey

1. CONTEMPORARY CIVILIZATION (現代文化概論). An orientation course for Freshmen, giving a rapid survey of contemporary civilization with its more important phases and activities, and the relation of Oriental culture to Western science, art, and religion. (Not offered 1937-1938).

3 hours; each semester.

3-4. SURVEY COURSE IN NATURAL SCIENCE (自然科學概論). A survey of the physical and life sciences. Required of all non-science majors.

Classroom 3 hours, laboratory 3 hours (4 credits); two semesters.

THE COLLEGE OF AGRICULTURE

THE UNIVERSITY is situated just within the tropics, in the heart of the great Canton Delta famous for its intensive agriculture; within its area grows a wide range of sub-tropical and temperate plants. The University is also in close proximity to the wonderful markets of Canton, where are found throughout the year a wide variety of products of Kwangtung and other provinces of China. In the immediate vicinity of the University are the farms of scores of villages which devote themselves almost entirely to agricultural pursuits, providing a wealth of material for instruction. Modern roads are now penetrating the island of Honam, where the University is situated, making the whole area available to students for natural history and social surveys as related to agriculture.

The University has a campus of about 600 acres of land, more than half of which is devoted to market gardening, nurseries, fruit culture, grain growing, mulberry culture, dairying, stock raising, and other farming operations. The remainder of the campus is devoted to buildings set in an attractive landscape of spacious grounds, over which have been planted a large selection of native and introduced trees and shrubs, making the area a veritable arboretum of scientific importance.

In addition to the agricultural station on the campus, the College of Agriculture maintains in Chungshan district, near the birthplace of Dr. Sun Yat-Sen, a substation of about ten thousand mows (2,000 acres) of hilly land devoted to forestry, fruit growing, and the study of dryland, extensive farming. There agricultural students go in the summer for farm practice.

The College of Agriculture is at present housed in a three-story building located immediately west of the Willard Straight Hall (Science Building). To the south of this building four attractive greenhouses and a lath house have been built through the interest of the China Foundation for the Promotion of Education and Culture and the Ministry of Education. The work of sericulture is provided for in a separate group of permanent buildings, located on the southern extremity of the campus, and built largely through the interests of members of the American Silk Association. Dairy barns, hog and poultry houses have been erected on the western section of the campus.

Library facilities for the agricultural students are well organized. In addition to general books to be found in the University Library, and science literature related to agriculture to be found in the science library, an agricultural library is maintained in the agricultural building where students have ready access to more than a thousand well-selected books on agricultural subjects and about fourteen thousand bulletins and reports of the outstanding agricultural organizations of the world. In addition to these

technical and scientific publications, the library includes fourteen hundred volumes of agricultural periodicals and live-stock breeding association herd books. In many cases the files are complete, while others are complete since 1910. In recent years particular efforts have been made to extend our collection of literature on tropical agriculture, both books and periodical, and the library now possesses the finest collection among the agricultural colleges in China.

Specially-equipped laboratories are provided for pomology, animal husbandry, soils, farm crops, sugar industry, plant pathology, animal products, fruit and vegetable products in the agricultural building. With the recent grant of a substantial sum of money for agricultural equipment to the College, many new apparatus and facilities are added for instruction and research use.

Arrangement of Work of Instruction

Because of the close interrelation of the colleges of the University and the necessity of requiring fundamental training in the natural and social sciences the agriculture student's only instructional relationship with the College of Agriculture during the first year is in a course in General Agriculture. At the beginning of the Sophomore year the agriculture student is asked to choose a major in one of two groups: Animal Industry, Plant Industry. His thesis, which is required of every student for graduation, and electives will then be in this field. However, it has been found through practical experience that the present day agriculturist in China needs broad rather than narrow training. For this reason the Plant student is required to take certain Animal courses, and the Animal student is required to take certain Plant courses. Farm Experience is required of all students and can be taken in summer and in two consecutive semesters after the Sophomore year.

COURSES PRESCRIBED FOR THE DEGREE

Curriculum in Animal Industry

FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
Agronomy 1 - General Agriculture	2	Physics 3 - Agr. Physics	4
Biol. 2 - Zoology	4	Biol. 3 - Botany	4
Econ. 1 - Elementary Econ.	4	Chem. 1b - Gen. Inorganic Chem.	5
Chem. 1a - Gen. Inorganic Chem.	5	Engl. 1b - Freshman English	4
Engl. 1a - Freshman English	4	Physical Education	$\frac{1}{2}$
Physical Education	$\frac{1}{2}$		
	<u>19$\frac{1}{2}$</u>		<u>17$\frac{1}{2}$</u>

SOPHOMORE YEAR

Agron. 11 - Soils	3	An. Hus. 12 - Animal Nutrition	3
An. Hus. 11 - Physiology of Domestic Animals	3	Chem. 21 - Agricultural Chem.	3
Biol. 47 - Genetics or Agron. 47 - Agr. Genetics	3	Chem. 22 - Analytical Chem.	3
Chem. 24 - Intro. to Organic Chem.	5	Chin. 1b - Intro. to Chin. Lit.	3
Chin. 1a - Intro. to Chin. Lit.	3	An. Hus. 31 - Life Stock Judg.	3
An. Hus. 15 - Testing & Inspection of Dairy Products	2	Biol. 70 - Bacteriology	4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	<u>19$\frac{1}{2}$</u>		<u>19$\frac{1}{2}$</u>

Summer: Agron. 92 - Summer Farm Practice (3 weeks).

JUNIOR YEAR

An. Hus. 48 - Dairy Production	3	An. Hus. 49 - Dairy Manufacturing	3
An. Hus. 43 - Poultry Prod.	3	An. Hus. 45 - Swine Production	3
Agron. 52 - Forage & Pasture Crops	3	Animal Husbandry Elective	3
Horticulture Elective	3	Biol. or Agron. Elective	3 or 4
Approved Elective	3 or 6	Hort. Elective	2 or 3
Agron. 91 - Farm Experience	-	Approved Elective	2 or 3
	<u>15 or 18</u>	Agron. 91 - Farm Experience	-
			<u>16 or 19</u>

Summer: Agron. 92 - Summer Farm Practice (3 weeks), if not already taken.

SENIOR YEAR

Agron. 54 - Farm Accounting	3	An. Hus. 99 - Thesis	2
An. Hus. 99 - Thesis	2	An. Hus. Elective	3 or 4
An. Hus. 61 - Common Diseases of Animals	3	Hort. Elective	2 or 3
Agron. Elective	3	*Approved Electives	9 or 11
*Approved Electives	6 or 9	Agron. 91 - Farm Experience (if not taken)	-
Agron. 91 - Farm Experience (if not taken)	-		<u>16 or 20</u>
	<u>17 or 20</u>		

*Students who expect to do graduate work abroad must take Eng'g. 13 - Geology as an approved elective.

**Physical and Military training are requirements for graduation for all students.

Animal Industry**I. Animal Husbandry**

Professors C. C. Chu, W.S. Wong; Messrs. K.W. Chau, W.C. Hu, P.H. Ma, and Helen Au Young.

The courses in Animal Husbandry are so arranged as to give the student special instruction in the selection, breeding, feeding, marketing, and management of livestock. Attention is given to sanitation and the treatment of the 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. A model herd of Indian buffaloes, pure-bred Holsteins, and pure-bred Jerseys supplies milk to the community. The dairy with its animals provides for experimental work and for practical experience for students interested in dairying. Similar opportunities are provided in pork production. The College has several varieties of poultry, both Chinese and Western, available for experimental and instructional purposes.

The Department has a creamery which is well equipped with modern machinery and equipment for producing pasteurized milk, soybean milk, butter, ice cream, and other dairy products. The students are taught commercial ways of manufacturing dairy products.

An up-to-date cold storage plant of one-ton capacity of refrigeration has been installed for preserving all materials that are produced under the direction of the department.

11. (21) PHYSIOLOGY OF DOMESTIC ANIMALS. (家畜生理學). Physiology of lymphatic, circulatory, respiratory, muscular and nervous systems, digestion, absorption, metabolism secretion, excretion, ductless glands, etc. Required of all students majoring in Animal Industry. Prerequisite: Agronomy 1.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

12. (32) ANIMAL NUTRITION (家畜飼料學). A study of the fundamental principles of nutrition; the different classes of food nutrients and their values; digestion, absorption, assimilation, nutritive ratio, food requirements, feeding standards and problems. Required of all students majoring in Animal Industry. Prerequisites: Animal Industry 11 and Agronomy 1.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

15. TESTING AND INSPECTION OF MILK AND ITS PRODUCTS. (中乳及乳品檢驗). Tests for fat, solids, acidity, preservatives, biochemical conditions, etc., used in dairy plant and dairy control laboratories. Required of all students majoring in Animal Industry.

Classroom 1 hr., laboratory 3 hrs. (2 credits); one semester.

31. STOCK JUDGING (相畜學). Judging of horses, dairy cattle, water buffaloes, hogs; the general study of breed of livestock. Required of all students majoring in Animal Industry. Prerequisite: Animal Industry 11.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

37. (61) ANATOMY OF DOMESTIC ANIMALS (家畜解剖學). The skeleton; muscles; digestive, circulatory, and genito-urinary organs of domestic animals. Prerequisite: Animal Industry 11.

Classroom 2 hrs., laboratory 6 hrs. (3 credits); one semester.

38. PRINCIPLES OF ANIMAL BREEDING (家畜進種學). Origin of domestic 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. Prerequisites: Biology 47 and Animal Industry 31.

Classroom 2 hrs. (2 credits); one semester.

43. POULTRY PRODUCTION (家禽學). 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. Required of all students majoring in Animal Industry. Prerequisites: Animal Industry 11 and Agronomy 1.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

45. (60) SWINE PRODUCTION (肉猪學). The principles governing the raising of swine for market and breeding; types; prevention of diseases; care and feeding of breeding stock. Required of all students majoring in Animal Industry. Prerequisites: Animal Industry 12 and Agronomy 1.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

48. DAIRY PRODUCTION (乳牛學). A study of the breeding and management of dairy animals; dairy barns and equipment; and the production of clean milk. This course also includes a study of the composition and properties of milk and the use of farm separators. Required of all students majoring in Animal Industry. Prerequisites: Animal Industry 12 and Agronomy 1.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

49. (86) DAIRY MANUFACTURING (初級乳品製造). A general survey of the whole field of the dairy industry on the manufacture of market milk, cream, ice cream, butter, cheese, condensed milk, and other dairy products, with special emphasis on fundamental principles and literature. Required of all students majoring in Animal Industry. Prerequisites: Animal Industry 15 and 48.

56. (108) DAIRY BACTERIOLOGY (乳業微菌學). Bacteria of milk and other dairy products; sources; modes of entry and changes produced, with

special emphasis on the preparation of butter culture. Prerequisites: Biology 2 and 3, Chemistry 1 a-b.

Classroom 2 hours, laboratory 6 hrs. (4 credits); one semester.

58. ICE CREAM AND ICES. (冲凉乳品製造學). Theories and practice of ice cream making. Care and preparation of materials used. Commercial methods of manufacturing plain and fancy ice cream and related products. Prerequisites: Animal Industry 15 and 49.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

59. MARKET MILK (乳業經營). Problem of producer, dealer, and of market milk production, inspection of dairy farms, of milk plants, and city milk supply; transportation, delivery, and marketing; milk plant operation; methods of conducting milk campaigns and of educating the public to appreciate the food value of milk. Prerequisites: Animal Industry 15 and 48.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

60. BUTTER MAKING. (乳油製造學). Separation of milk, preparation of starter, and ripening and churning of cream. Prerequisite: Animal Industry 15.

Classroom 2 hrs., laboratory 6 hrs. (4 credits); one semester.

61. COMMON DISEASE OF DOMESTIC ANIMALS (家畜病害學). Common diseases of cattle, horses, swine, and poultry. Diagnosis and methods of control, general hygiene, and sanitation. Prerequisite: Animal Industry 11.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

91. (112) ELEMENTARY VETERINARY SCIENCE (初級獸醫學). An introductory course for students interested in veterinary science; detailed study of the symptoms, causes, prevention, and treatment of various animal diseases; the use and the principles of manufacturing vaccine and serum; the organization and construction of a clinic; description and uses of veterinary equipment. Prerequisite: Animal Industry 61.

Classroom 2 hrs. (2 credits); one semester.

96. SPECIAL PROBLEM IN ANIMAL INDUSTRY (專題研究). This course is open to Senior students, or Junior students who have had sufficient training in Animal Industry. This work is assigned and may be taken in dairying, poultry, or swine production. Total number of credits depends upon the problem selected. Lab. fee, \$5.00.

Classroom discussion 1 hrs. laboratory 3 hrs. (1 credit); one semester.

99 a-b. THESIS (畢業論文). Thesis on some special Animal Industry problem selected by the student majoring in Animal Industry and approved by the Dean and senior professor of Animal Industry not later than the beginning of the first semester in the senior year. Lab. fee, \$5.00.

2 credits; two semester.

Curriculum in Plant Industry

FRESHMAN YEAR

SEMESTER I		SEMESTER II	
SUBJECTS	CREDITS	SUBJECTS	CREDITS
Agron. 1 - General Agriculture	2	Physics. 3 - Agr. Physics	4
Biol. 2 - Zoology	4	Biol. 3 - Botany	4
Econ. 1 - Elementary Econ.	4	Chem. 1b - Gen. Inorganic Chem.	4
Chem. 1a - Gen. Inorganic Chem.	5	Engl. 1b - Freshman English	5
Engl. 1a - Freshman English	4	Physical Education	$\frac{1}{2}$
Physical Education	$\frac{1}{2}$		
	19 $\frac{1}{2}$		17 $\frac{1}{2}$

SOPHOMORE YEAR

Eng'g. 13 - Geology	3	Biol. 51 - Intro. Entomology	4
Agron. 11 - Soils	3	Chem. 21 - Agricultural Chem.	3
Chem. 24 - Intro. Organic Chem.	5	Chem. 92 - Analytical Chem.	3
Chin. 1a - Intro. to Chi. Lit.	3	Chin. 1b - Intro. to Chi. Lit.	3
Biol. 60 - Systematic Botany or		Biol. 32 - Plant Physiology or	
Biol. 65 - Economic Botany	4	Biol. 31 - Plant Morphology	4
Physical Education	$\frac{1}{2}$	Physical Education	$\frac{1}{2}$
	18 $\frac{1}{2}$		17 $\frac{1}{2}$

Summer: Agron 92 - Summer Farm Practice (3 weeks).

JUNIOR YEAR

Hort. 52a - Vegetable Culture	3	Hort. 52b - Vegetable Culture	2
Hort. 55 - Pomology	3	Hort. 57 - Plant Propagation	3
Biol. 47 - Genetics or		Agron. 56 - Prin. of Pl. Breeding	3
Agron. 47 - Agr. Genetics	3	Agron. 51 - Crop Production	3
Horticulture Electives	2 or 3	Animal Husbandry Elective	3
Agronomy Elective	3	Biol. 70 - Bacteriology	4
Approved Elective	2 or 3	Agron. 91 - Farm Experience	-
Agron. 91 - Farm Experience	-		
	16 or 18		18

Summer: Agron. 92 - Summer Farm Practice (3 weeks), if not already taken.

SENIOR YEAR

Agron. or Hort. 99 - Thesis	2	Agron. or Hort. 99 - Thesis	2
An. Hus. Electives	3 or 6	Biol. 72 - Plant Pathology	4
Agron. Electives	3 or 6	An. Hus. Electives	3
Approved Electives	3 or 6	Agron. Electives	3
Agro. 91 - Farm Experience	-	Approved Electives	6 or 8
(if not taken)	-	Agro. 91 - Farm Experience	-
	17 or 20	(if not taken)	-
			18 or 20

**Physical and Military training are requirements for graduation for all students.

Plant Industry**I. Agronomy.**

Professors K. F. Koo, S. C. Peh; Messrs. C. L. Liu, S. K. Pang, and C. K. Lo.

The instructional work in Agronomy covers the production, improvement, manufacture, and uses of each of the field crops produced for food, forage, textile, and special purposes. In addition, certain courses of rural engineering and economics are primarily given to teach students practical and economical methods of crop production and marketing that may be put into actual use in the farm. These courses are designed to complete the student's training in the fundamental courses whether he be majoring in Plant or Animal Industry. The division has greenhouses and well equipped laboratories. The University farm and substation afford superior opportunities for field study and practical experiments.

1. GENERAL AGRICULTURE (農學通論). A general survey of the whole field of the agricultural sciences and practices, with special emphasis on fundamental principles and literature. Required of all agricultural students.

Classroom 2 hours (2 credits); one semester.

11. ELEMENTARY SOILS (土壤學). A comprehensive treatment of the composition, properties, and plant relationships of soils, with special reference to dynamic and structural geology in the formation of soils. Required of all agricultural students. Prerequisites: Chemistry 1 a-b and Agronomy 1.

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

47. GENETICS IN RELATION TO AGRICULTURE (遺傳學). A study of the principles of genetics and their relation to agriculture. Biometric methods including a study of correlation. Prerequisites: Biology 2 and 3. Required of all agricultural students.

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

51. CROP PRODUCTION (農作物學). A study of the important cereals, fibers, legumes, root crops, tobacco, and tea and a consideration of the uses and preparation of these for manufactured products. Lectures and laboratory work supplemented with field trips. Required of agricultural students majoring in Plant Industry. Prerequisites: Agron. 1 & 11.

Classroom 2 hrs., field work 3 hrs. (3 credits); one semester.

52. FORAGE AND PASTURE CROPS (飼料作物學). A study of the important cereals, root crops, legumes, and grasses used for forage and pasture purposes. Required of all students majoring in Animal Industry. Prerequisites: Agron. 1 & 11.

Classroom 2 hrs., field work 3 hrs. (3 credits); one semester.

53. IRRIGATION & DRAINAGE (灌溉排水學). The principles of irrigation and drainage, surveying, chaining, care and use of level. Preparation of profiles. Required of all students. Prerequisites: Agron. 1, 11, & 51 or 52.

Classroom 2 hrs., field work 3 hrs. (3 credits); one semester.

54. FARM ACCOUNTING (農場會計學). The general principles of accounting and bookkeeping applicable to farming. Emphasis is placed on inventory, financial statement, and cost accounting. The technique of bookkeeping is provided through illustrated exercises and problems.

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

55. GENERAL FARM MANAGEMENT (農場管理). This course assembles and correlates 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 students. Prerequisites: Farm Experience and Agron. 54.

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

56. PRINCIPLES OF PLANT BREEDING (進種學). The history of Plant Breeding, the principles and methods of plant improvement. Prerequisites: Biol 31. and 32 and Agron. 47.

Classroom 2 hrs., laboratory and field 3 hrs. (3 credits); one semester.

57. FIELD EXPERIMENTATION (田間試驗技術). Modern field experimentation and the statistical methods employed in the interpretation of results of annual, semi-perennial crops. Required of all students majoring in Plant Industry. Prerequisite: Agron. 47.

Classroom 2 hrs., (2 credits); one semester.

58 a-b. SUGAR CANE AND RICE PRODUCTION (甘蔗與稻作). The culture, propagation, fertilization, and improvement of the sugar cane and rice. Practice in the technical study of sugar manufacture and its chemical control. Prerequisites: Agron. 1 and 11.

Classroom 1 hr., field work 3 hrs. (2 credits); two semesters.

Agronomy 59. TROPICAL CROPS (熱帶農作物). The agronomy of tropical crops which are suitable for Hainan Island, including such crops as rubber, coconut, coffee, cocoa, cocaine, derris, cinchona, and chaulmoogra, etc.

Classroom 2 hrs., lab. 3 hrs. (3 credits); 1 semester.

60. SOIL FERTILITY. (肥料學) 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 to apply. Prerequisites: Agron. 11 21 and 22 and 51 or 52 and Chem.

Classroom 2 hrs., laboratory 3 hrs. (3 credits); one semester.

61. FARM IMPLEMENTS. (農具學). The mechanical principles of different types of farm machinery and their proper adjustment.

Classroom 1 hr., laboratory 2 hrs. (2 credits); one semester.

91. FARM EXPERIENCE (農事實驗). Each student before graduation is required to show that he has engaged in farm work for practical farm experience during his junior or senior year. Required of all students. Without credits.

Field work 3 hrs. a week.

92. SUMMER FARM PRACTICE (農場實習). Each student is required to work in the University farm or substation for 3 weeks to gain some general farm experience. It is recommended that the student arranges for this during the summer following his Sophomore or Junior years. Required of all students; no credits.

Summer 3 weeks.

96. SPECIAL PROBLEMS IN AGRONOMY (專題研究). This course is open to Senior students, or Junior students who have had sufficient training in Agronomy. The work is assigned and may be taken either in soil or in crop problems. Prerequisites: Agron. 11, and 51 or 52. Total number of credits depends upon the problems selected. Lab. fee, \$5.00.

Classroom discussions 1 hr., (1 credit); one or two semesters.

99 a-b THESIS (畢業論文). Thesis on some special agronomy problem selected by the student majoring in Agronomy and approved by the Dean and Senior Professor of Agronomy not later than the beginning of the first semester of his Senior year. Lab. fee, \$5.00.

Two credits; two semesters.

2. Horticulture

Professors Croff, P.M. Lee, T.C. Lei, I.N. Shiu, and D.D. Stevenson;
Messrs. H.C. Wang and H.T. Hoh.

The courses in Horticulture are so arranged as to give the students practical instruction in growing fruits and flowers and theoretical background for understanding the fundamental principles involved in such operations. A wealth of illustrative material for the classes in Horticulture is found in the large collection of foreign and native species growing on the University campus, in the numerous orchards within and surrounding the College, and in commercial flower gardens at Fati (花地). The Horticultural

Laboratories are well equipped with microscopes, microtome, drying oven, potentiometers for PH determination, epidiroscope; and wax models, photographs, and preserved specimens of fruits and vegetables; and equipment for canning and dehydration of fruits and vegetables. Students wishing to do research work on any phase of Horticultural investigation can have ready access to these facilities.

The Division is in close cooperation with the botanical and entomological work in the Department of Biology as also with the Department of Plant Pathology. Graduate students interested in plant studies are encouraged to take their majors in one of these lines and to minor in Horticulture. This gives the student a well balanced program as the courses in Horticulture are very practical and bring the students into close contact with living plant materials, thus admirably supplementing his more theoretical studies.

All students taking their major in Plants are required to take Horticulture 52 a-b, 55 and 57, the first of these extending throughout the entire year.

51. FLORICULTURE (花卉學). A practical course in flower gardening 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 select this course. Prerequisite: Agron. 1.

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

52 a-b. VEGETABLE CULTURE (蔬菜園藝). A detailed study of both native and foreign vegetables, with special emphasis on their cultural methods. Prerequisites: Agronomy 1 and 11 and Biology 3.

Classroom 2 hrs. laboratory 3 hrs. (3 credits); 1 semester.

Classroom 1 hr., laboratory 3 hrs. (2 credits); 2 semesters.

53. DENDROLOGY (樹木學). A study of trees and shrubs in the vicinity of the University, with a view to identification under fall and winter conditions. Students other than those studying Agriculture will find this a useful course.

Classroom 1 hr., laboratory or field 3 hrs. (2 credits); 1 semester

54. LANDSCAPE GARDENING (風景園藝). 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 laying out of walks, etc. Planting plans are required in field work. Prerequisite: Horticulture 51.

Classroom 1 hour, field 3 hours, (2 credits); one semester.

55. **POMOLOGY.** (菓樹園藝). A study of the principles and practice of fruit growing. It embraces the planting, production, harvesting, and marketing of fruits. General orchard soil management. Methods of propagation, training, and pruning fruit trees are dealt with.

Classroom 2 hrs., laboratory or field 3 hrs. (3 credits); one semester.

56. **SUBTROPICAL FRUITS** (亞熱帶菓樹學). A more specialized course in fruit growing, with special reference to the Litchi and Lungan, the citrus fruits and other subtropical fruits of, or which are promising of, commercial importance in Kwangtung. A study of the botanical characteristics, the common cultural practice, methods of propagation, and other related phases in the cultivation of these fruits.

Classroom 2 hrs., laboratory or field 3 hrs. (3 credits); one semester.

57. **PLANT PROPAGATION** (菓樹繁殖法). Fundamental principles underlying the sexual propagation of plants, also training and practices in common and advanced methods of propagation. Prerequisite: Horticulture 55.

Classroom 1 hr., field 6 hrs. (3 credits); one semester.

58. **SYSTEMATIC POMOLOGY** (菓樹分類學). A study of classification and nomenclature with laboratory work in description and identification of fruits. It will include the study of a sufficient number of varieties to acquaint the student with the more important groups, and varieties of subtropical and some temperate fruits. Prerequisites: Horticulture 55, Biology 60.

Classroom 1 hr., laboratory or field 3 hrs. (2 credits); one semester.

59. **CANNING: PRESERVING FRUITS AND VEGETABLES** (蔬菜貯藏製造法). A general and practical course in the manufacturing of horticultural 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 70 and Chemistry 21.

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

60. **GENERAL FORESTRY** (森林學). Principles of forestry applied to the establishment, care and protection, and utilization of forest trees; forest influences. Prerequisites: Biol. 3 and preferably 60, and Agronomy 11.

Classroom 2 hrs., lab. or field 3 hrs. (3 credits); 1 semester.

61. **GREENHOUSES** (溫室園藝). A general course in greenhouse construction, and in forcing and management. Prerequisites: Hort. 52 a-b.

Laboratory 2 hours (2 credits); one semester.

62. **SILVICULTURE.** (林木學) Propagation of forest trees, nursery methods and practices; silvicultural systems of management. Artificial establishment of forest stands. For Junior or Senior students majoring in Plant Science.

Classroom 2 hrs., lab. or field 3 hrs. (3 credits); one semester.

96. **SPECIAL PROBLEMS IN HORTICULTURE** (專題究研). This course is open to Senior students, or Junior students who have had sufficient training in Horticulture. The work is assigned and may be taken either in vegetable gardening, fruit orcharding, flower gardening, or tree nurseries. Total number of credits depends upon the problems selected. Lab. fee, \$5.00.

Classroom discussions 1 hr. (1 credit); one or two semesters.

97. **METHODS OF HORTICULTURAL RESEARCH.** (園藝學研究技術). A study of methods of procedure in work of investigation, making of briefs and outlines of research problems, assembling and analyzing data, and presenting results. A critical study is made of research work presented in literature. Limited to advanced students specializing in horticulture. Classroom or round table discussions 1 period or more (1 or more credits); one semester.

99 or 99 a-b. **THESIS** (畢業論文). Thesis on some special horticultural problem selected by the student majoring in Plants and approved by the Dean and the Senior Professor of Horticulture not later than the beginning of the first semester of his Senior year. Lab. fee, \$5.00.

2 to 4 credits; one to two semesters.

3. Plant Pathology.

Professor Wm. T.H. Ho; Miss S.Y. Chen.

The division of plant pathology is more or less a service department in the College of Agriculture. It answers the requests of other departments to diagnose diseases of farm crop, as well as horticultural crop plants and furnish methods of prevention whenever available. The larger portion of the efforts for this department is laid on the investigation and surveying of diseases on economic plants in Kwangtung. The courses offered are as follows:

72. **PRINCIPLES OF PLANT PATHOLOGY** (植物病理學原理). This course gives a general consideration of diseases of economic crops caused by bacteria, fungi, slime mold, filterable viruses, flowering plants, and nematodes as well as non-parasitic agencies. Their control is also discussed. Prerequisites: Biology 60 and preferably 70 also.

Classroom 2 hours, laboratory 6 hours (4 credits); one semester.

73. **COLLECTION AND IDENTIFICATION OF LOCAL FUNGI** (菌類採集及檢定). Students will be taught to collect local fungi and to identify them whenever possible. Prerequisite: Plant Pathology 72.

Laboratory 6 hours (2 credits); one semester.

96. SPECIAL PROBLEMS IN PLANT PATHOLOGY (專題研究). Students majoring in farm crops, Horticulture, or Botany in their junior or senior year may take up this study with the approval of their Deans and major professors. Problems on plant diseases or on mycology may be assigned to them with reference to their specialization. Prerequisite: Plant Pathology 72.

(credits to be arranged).

99 a-b. THESIS. (畢業論文). Thesis for graduation.

(4 credits); two semesters.

THE COLLEGE OF ENGINEERING

Professors K. H. Lei, S. H. Wang, Y. M. Wong, and S. L. Lo; Messrs. F. O. Ip, W. Y. Ko, Y. Y. Wong, L. S. Chan, and K. F. Kwong.

THE COLLEGE OF ENGINEERING was organized in August, 1929, by the Directors of Lingnan University and the Ministry of Railways of the Chinese Government to give courses in different lines of Engineering. For the present, attention is devoted entirely to Civil Engineering. The Ministry of Railways has provided for the construction of the first building and for current expenses. By agreement, the ministry is to appropriate funds annually for more buildings and equipment, and graduates of this College are to be given employment in construction work of the government.

The work of the first three years is fundamental and practically all of it is required of all students. Electives are offered in the Senior year.

In the Freshman year the student takes $21\frac{1}{2}$ credits in the first semester and $24\frac{1}{2}$ credits in the second semester. In the Sophomore year he takes $24\frac{1}{2}$ or $23\frac{1}{2}$ credits each semester. In later years he may take a maximum of 23 or 19 credits each semester. Workshop practice is required, and surveying work at camps (3 credits each summer) is required for two summers. The time for completing the whole course is not specified but four years besides two summers is usually needed to complete the work (183 credits, most of which being in specified courses) for graduation.

Program for the Major in Civil Engineering

FRESHMAN YEAR	SEMESTER I		SEMESTER II	
	SUBJECTS	CREDITS	SUBJECTS	CREDITS
	Chinese 1a	3	Chinese 1b	3
	English 1a	4	English 1b	4
	Engineering 1a	2	Engineering 1b	2
	Engineering 2a	2	Engineering 2b	2
	Mathematics 6a	4	Mathematics 6b	4
	Physics 2a	5	Physics 2b	5
	Shop Practice (Eng'g 3)	1	Econ. 1	4
	Phy. Ed.	$\frac{1}{2}$	Phy. Ed.	$\frac{1}{2}$
		<hr/>		<hr/>
		21 $\frac{1}{2}$		24 $\frac{1}{2}$

	SEMESTER I		SEMESTER II	
	SUBJECTS	CREDITS	SUBJECTS	CREDITS
SOPHOMORE	Chemistry 1a	5	Chemistry 1b	5
	Engineering 12a	4	Engineering 12b	4
	Engineering 13	3	Engineering 17	5
	Engineering 14	3	Engineering 19	1
	Engineering 16	5	Engineering 20b	2
	Engineering 18	2	Engineering 54	4
	Engineering 20a	2	Engineering 62	2
	Phy. Ed.	$\frac{1}{2}$	Phy. Ed.	$\frac{1}{2}$
		<hr/>		<hr/>
		24 $\frac{1}{2}$		23 $\frac{1}{2}$
	Engineering 22-3 credits			
JUNIOR	Engineering 21	4	Engineering 51	3
	Engineering 52a	2	Engineering 52b	2
	Engineering 53	4	Engineering 56b	3
	Engineering 55	3	Engineering 57b	2
	Engineering 56a	3	Engineering 58	3
	Engineering 57a	2	Engineering 59	3
	Engineering 61a	3	Engineering 60	3
		—	Engineering 61b	3
		21	Engineering 63	1
			<hr/>	<hr/>
			23	
	Engineering 64-3 credits			
SENIOR	Business 62	3	Engineering 66	1
	Engineering 68	3	Engineering 69	4
	Engineering 85	3	Engineering 86	4
	Engineering 99a	3	Engineering 99b	3
	Electives	8	Electives	7
		<hr/>		<hr/>
	20		19	

1 a-b. GEOMETRICAL DRAWING (初級圖畫). An introduction to engineering drawing, covering the use and care of drawing instruments. Representation of points, lines, and planes, curved surfaces and solids by their projections; methods of determining true length, true angle and various intersections of lines, surfaces and solids, and development of various surfaces. Topographic mapping, detailed drawings of beams, trusses, and elementary structures. Chinese lettering.

Drawing-room 6 hours (2 credits); two semesters.

2 a-b. ELEMENTARY SURVEYING (初級測量). Practical training in the use of instruments; plane and topographic surveying, mapping and computation of earth work.

Classroom 1 hour, laboratory 3 hours (2 credits); two semesters.

3. WORKSHOP PRACTICE (木工廠). Practical training in the use of wood-working tools and machines.

Laboratory 3 hours (1 credit); first semester.

12 a-b. GEOD. SURVEYING AND FIELD ASTRONOMY (高級測量). Recitation, field work, and drafting, covering the various methods of making and of plotting of topographic surveys, including the theory and use of the plane table, stadia, sextant, and solar attachment to the transit; spherical and practical astronomy. Prerequisite: Engineering 2 a-b.

Classroom 2 hours, laboratory 6 hours (4 credits); first semester.
Classroom 3 hours, laboratory 3 hours (4 credits); second semester.

13. ENGINEERING GEOLOGY. (地質學). An outline of fundamental principles in the relations of geological processes and structures to engineering.
(3 credits); one semester.

14. DESCRIPTIVE GEOMETRY (圖形幾何). A study of the representation of points, lines, planes, curved surfaces, and solids; intersections, developments, and surfaces; perspective.

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

16. MECHANICS OF ENGINEERING (工程力學). Principles of applied mechanics: statics, kinematics, and kinetics. Prerequisite: Mathematics 6 a-b.
(5 credits); one semester.

17. STRENGTH OF MATERIALS (材料力學). A full discussion of the subject of resistance of materials: strain, flexure, deflection, torsion, and fatigue, including stresses, shear, tension, frame, column, and moment of inertia. Prerequisite: Engineering 16.
(5 credits); one semester.

18. MATERIALS OF CONSTRUCTION (工程材料). A study of the manufacture, physical properties, uses, and testing of materials of construction.
(2 credits); one semester.

19. TESTING LABORATORY (材料試驗). Tests of engineering material: metals, timber, brick, cement, concrete aggregates, and concrete. Reinforced concrete beams and columns, study of standard specifications. Prerequisites: Engineering 17 and 18; or taken at the same time with Engineering 18. Lab. fee, \$5.00.

Laboratory 3 hours (1 credit); one semester.

20 a-b. ARCHITECTURAL ENGINEERING (營造工程). History of architecture; orders and styles; practical guide to building construction.

Classroom 1 hour, laboratory 3 hours (2 credits); two semesters.

21. REINFORCED CONCRETE THEORY (鋼骨混凝土論). In this course the student is taught the fundamental principles of reinforced concrete

design. It begins with the properties of concrete materials and is followed by the theory of flexure of beams, shear and bond stresses, deflection of beams and the design of columns. General method of design of reinforced concrete buildings receives special attention and a thorough study is made of the analysis of flat slabs. Numerous problems on slabs, beams, columns, deflection of concrete beams, and flat slabs supplement the course. Prerequisites: Engineering 17 and 18.

Classroom 3 hours; laboratory 3 hours (4 credits); one semester.

22. SUMMER SURVEYING CAMP (暑期野外地形測量). Four weeks of field work in topographic and hydrographic surveys under the direction of instructors. Prerequisite: Engineering 12 a-b.
3 credits; four weeks.

51. HEAT POWER ENGINEERING (熱力學). A study of thermodynamics of gases and vapors; construction, operation and care of boilers, air compressors, internal combustion engines, steam engine and turbines. Prerequisites: Physics 2 a-b, Chemistry 1 a-b, and Engineering 17.

(3 credits); one semester.

52 a-b. RAILROAD SURVEYING AND DRAWING (鐵道測繪學). Practical instruction in railroad survey: curve, trackwork, and earthwork. Prerequisite: Engineering 12 a-b.

Classroom 1 hour, laboratory 3 hours (2 credits); two semesters.

53. ESSENTIALS OF ELECTRICAL ENGINEERING (電機工程). Fundamental principles underlying electric machines, with discussion and study of generators and motors. Prerequisites: Mathematics 6 a-b and Physics 2 a-b.

Classroom 3 hours, laboratory 3 hours (4 credits); one semester.

54. HYDRAULICS (水力學). The principles and applications of hydrostatics, hydrokinetics, and hydrodynamics. Prerequisites: Engineering 16 and 17.

Classroom 3 hours, laboratory 3 hours (4 credits); one semester.

55. SANITARY ENGINEERING (衛生工程). General principles of sewer design, sewer construction, and sewage treatment. Prerequisite: Engineering 54.

(3 credits); one semester.

56 a-b. THEORY OF STRUCTURES (結構理論). This course aims to give the students a complete and thorough knowledge of the elementary principles involved in structural engineering. In the recitation period both analytic and graphic methods of analysis of stresses are used. Each student is required to make a complete analysis of a roof truss and various types of bridge trusses under both uniform and concentrated loads. Prerequisites: Engineering 16 and 17.

Classroom 3 hours (3 credits); two semesters.

57 a-b. STRUCTURAL DESIGN (結構計畫). Students are required to make a complete design of a wooden roof truss, a steel roof truss, beam, plate girders, a small steel mill building. Stress sheets and general drawings are required. Prerequisite: Engineering 56 a-b.

Laboratory 6 hours (2 credits); two semesters.

58. HIGHWAY ENGINEERING (道路工程). Design, construction, and maintenance; economics of street pavements and rural highways.

(3 credits); one semester.

59. WATER SUPPLY (給水工程). Sources of supply; collecting and distributing system after purification.

(3 credits); one semester.

60. MASONRY AND FOUNDATIONS (石工及基礎理論). Masonry construction in general. Design and construction of masonry dams (stone, plain concrete, reinforced concrete). Design and construction of retaining walls. Brief account of masonry arches. General study of building foundations. Bridges, piers and abutment and abutments. Construction of piling (ordinary and special types, sheet piling, etc.), cofferdams, pneumatic caissons, etc. Prerequisite: Engineering 56 a-b or taken at the same time with Engineering 56 a-b.

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

61 a-b. RAILWAY CONSTRUCTION (鐵道建築). The fixed portions of a railway plant and the underlying principles of the design of its layout followed by the study of the costs, and equipment used in all branches of railroad construction work. Prerequisite: Engineering 52 a-b or taken at the same time with Engineering 52 a-b.

(3 credits); two semesters.

62. ENGINEERING CONTRACTS (工程合同). Legal and engineering relations, the law of contracts; engineering specifications and contracts.

(2 credits); one semester.

63. REINFORCED CONCRETE BUILDING (鋼骨混凝土房屋建築). A detail design of a four story factory of slab, beam, and girder construction. Alternate designs for flat slab floors and girder, cost estimates for each. Drawings are made of typical panels, showing all reinforcing details of floor systems and columns, accompanied by bar schedules. Reinforced concrete columns subject to direct stress and bending. The design of a cantilever retaining wall and a counterfort wall. Prerequisite: Engineering 21.

Laboratory 3 hours (1 credit); one semester.

64. SUMMER RAILWAY SURVEYING CAMP (暑期野外鐵道測量). Location and preparation of estimates for some five miles of railroad and a short section of highway conducted in a nearby suitable locality selected from year to year. Prerequisite: Engineering 52 a-b.

3 credits; four weeks.

66. RAILROAD DESIGN (鐵道計劃). One of the following subjects of some other subjects approved by the professor in charge: freight and passenger terminals; grade crossing elimination; a study for the improvement of grade or alignment; an economic study of the location, construction and cost of a grade elimination or installation of an interlocking system on some existing railroad; gravity yard and system of yard signals. Prerequisite: Engineering 65 a-b.

Laboratory 3 hours (1 credit); one semester.

67. REINFORCED CONCRETE ARCHES (鋼骨混凝土拱橋建築). The design and construction of fixed concrete arches. Each student is required to make a preliminary and a final design for an arch of at least 100 feet span. The preliminary design is based upon a combined algebraic and graphical method and final stresses in the arch ring are then computed by the elastic theory. Prerequisite: Engineering 21 a-b.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

68. BRIDGE DESIGN (橋梁計劃). Fundamental principles of design and their application to modern bridge construction. The lectures are supplemented by illustrated talks on the fabrication and erection of steel, concrete, and timber structures. Complete design accompanied by stress sheets and design drawings are made for a timber trestle, a steel railroad bridge of several spans. Studies of economic span length are made for the railroad bridge; a deck plate girder span and a riveted truss span are then designed. Deflections are computed and a camber diagram is made for the truss span.

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

69. STEEL DESIGN (鋼架計劃). Design of steel elevated tanks and self supporting steel stacks and of trusses.

Classroom 3 hours, laboratory 3 hours (4 credits); one semester.

72. ADVANCED HYDRAULICS (高級水力學). Hydrostatics; flow of water in pipes, mains, canals, sewers, streams, rivers; measurement of the flow of water by orifices weirs, current meters, measurement, estimates and cost of water power and of hydroelectric plant.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

73. RIVER AND HARBOR ENGINEERING (河港工程). The flood problem, and method of regulation of rivers. General characteristics of

rivers, with reference both to flood protection and to river improvement for navigation purposes. General investigation of tidal and wave action in harbors and estuaries. Design and construction of docks and piers. Design and construction of breakwaters (both mound and wall breakwater); channel demarkation. Prerequisite: Engineering 54.

3 credits; one semester.

74. WATER POWER ENGINEERING (水力工程). Preliminary investigation, selection of site, storage requirements, structure, machinery, and accessories of hydroelectric plants. Prerequisite: Engineering 54 and 59; or taken at the same time with Engineering 59.

(2 credits); one semester.

75. PUMPS AND PUMPING (水力機及吸水學). The characteristics of pumps and the methods of pumping water for irrigation and fire.

Classroom and laboratory 3 hours (3 credits); one semester.

76. HYDRAULIC CONSTRUCTION (水力建築). Design and construction of hydraulic structures of the more important types, including those for irrigation, water supply, and water power. Study of special appliances as movable crests for dams, automatic outlet gates, etc. Prerequisite: Engineering 59.

Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

77. PURIFICATION OF WATER (給水澄清學). Design of water purification work; standards and tests of drinking water. Prerequisite: Engineering 54.

(3 credits); one semester.

78. SEWERAGE WORKS (衛生工程建築學). General design and construction of sewage treatment works. Prerequisite: Engineering 55.

(3 credits); one semester.

79. PHOTOGRAPHIC AND AERIAL SURVEYING (照相及空氣中測量). General methods of making topographic maps from vertical and from oblique photographs; methods of control of aerial surveys.

2 credits; one semester.

80. RAILROAD MAINTENANCE (鐵路維持法). Basic elements of track work, roadway machines, tools, supplies, records and accounts of maintenance of way department. Prerequisite: Engineering 52 a-b.

(3 credits); one semester.

81. HIGHWAY MATERIAL LABORATORY (公路材料試驗). Laboratory practice in testing of asphalts, tars, road oils, bituminous mixtures, stone, gravel, and paving brick. Prerequisite: Engineering 58.

Laboratory 6 hours (3 credits); one semester.

82. ADVANCED HIGHWAY ENGINEERING (高級公路工程). Road system and their planning, street systems and their planning, with some attention to city planning in general. Car track and pipe systems in pavement. Comparison of roads and pavements and characteristics of an ideal road. Prerequisite: Engineering 58.

(3 credits); one semester.

83. ADVANCED THEORY OF STRUCTURES (高級結構理論). A study of the advanced problems in structural engineering such as analysis of arches, continuous trusses, cantilever bridges, movable bridge, suspension bridges and other statically indeterminate structures. Deflection of structures and secondary stresses are also taken up in the course. Prerequisites: Engineering 16, 17 and 56 a-b.

(3 credits); one semester.

84. STEEL BUILDING (鋼屋計劃). Design and construction of steel mill buildings are given. Students are required to make complete designs with detail drawings of a steel mill building with a travelling bridge crane.

Classroom 1 hour, laboratory 6 hours (3 credits); one semester.

85. HIGHWAY BRIDGE (公路橋梁計劃). Design of highway bridges, preparation of plans, specifications, and estimate of cost. Prerequisite: Engineering 21.

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

86. REINFORCED CONCRETE DESIGN (鋼骨混凝土計劃). Complete designs are made of the slabs, beams, girders, columns, footings and forms with detail drawings of floor bays, columns and steel reinforcement. Prerequisite: Engineering 21.

Classroom 3 hours, laboratory 3 hours (4 credits); one semester.

87. CITY PLANNING (城市計劃工程). Design of a water supply system including layouts, filter, etc., and of intercepting sewers and tank treatment. Problems on designing and planning buildings and roads of a small city or town may be assigned.

(3 credits); one semester.

88. ADVANCED ARCHITECTURAL DESIGN (高級營造工程). Design of complete buildings. Plans, elevations, sections and details, rendering of same.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

90. ADVANCED ARCHITECTURAL DESIGN (高級營造工程學). Continuation of 88.

Classroom 1 hour, laboratory 3 hours (2 credits); one semester.

99 a-b. THESIS (學業論文). A subject in civil engineering developed as a thesis by a senior student under the direction of a professor.

3 credits; two semesters.

Dr. SUN YAT-SEN MEDICAL COLLEGE

Professors M. Wong, Cadbury, Thomson, Oldt, Ross W. Wong, Karcher, K. L. Hsu, T. P. Lee, Wm. Jui Poy, N. M. Leung, B. L. E. Wong, and K. L. Ng; Messrs. K. K. Chung, T. D. Stevenson, P. I. Cheung, N. Y. Cheung, Eugene W. Low, S. P. Pang, L. Pang, Y. H. Nye, H. S. Tai, O. L. Chan, W. M. Tso, Y. K. Caan, H. S. Yip, S. K. Leung, W. Y. Cheung, S. L. Wong, P. C. Hui, T. M. Cheung, M. H. Shek, K. C. Kwok, S. K. Chiu, T. Y. Wong, Y. W. Tang, W. T. Koon, K. T. Ko, T. F. Lui, and S. M. Wong.

Aims. 1) To commemorate the place where Dr. Sun Yat-Sen studied medicine and where the history of the Revolution began, 2) to advance medical education in China, and 3) to train a medical personnel of high character and imbue it with the spirit of service and sacrifice.

History. The College came into being in 1936 when Lingnan University, taking over Canton Hospital (博濟醫院), combined with Hackett Medical College (夏葛醫學院) to establish for South China a strategic center of Christian medical education.

Canton Hospital, founded in 1835 by Dr. Peter Parker from the United States of America, can claim to be the parent of modern medicine in China and the Far East. Performing operations for vesical calculus as far back as 1844, administering ether as anaesthetic in 1847, using chloroform the next year, and instituting laparotomy as early as 1875, it laid the foundation of modern medicine in China. The founders of the hospitals in Hoihow, Yeungkong, and other places within Kwangtung province were physicians from Canton Hospital. As far back as seventy or eighty years ago, Canton Hospital was sending out doctors to practise medicine in Amoy, Shanghai, Peking, Ningpo, and other cities in China; some even went to Japan. In 1855 a medical college was established admitting men students only, although apprentices had been taken in for instruction in 1837. In 1879, at the request of True Light Girls' School (真光女學), women students were also admitted, this being the first instance of coeducation in China. At first, there being no medical books in existence in the language, the students learned from lectures only. From 1851 medical text-books began to be translated, and a total number of over twenty enjoyed circulation through the country. In 1886, Dr. Sun Yat-Sen, choosing the medical profession as one to gain economic independence and social prestige in order to afford him protection in working for the revolution, used the name of Yat-Sen to enter Canton Hospital Medical College. A year afterward he transferred to Alice Memorial Hospital (雅麗士醫院) in Hongkong but still frequented Canton Hospital in his journeyings to and fro in the cause of the revolution.

In 1899, Dr. Mary W. Niles left the hospital to establish the Ming-Sum School for the Blind (明心書院) and Dr. J. G. Kerr, who had served for forty-five years, retired to found the Refuge for the Insane (頤任醫院) which is now the Municipal Hospital for Mental Diseases (市立精神病院). At this time a third institution came into being. Dr. Mary Fulton, who was also a teacher in Canton Hospital, founded David Gregg Hospital (柔濟醫院) in 1899 and opened the first school of medicine for women in

China, to which was given the name Hackett Medical College (夏葛醫學院). This school had a continuous history, until in July, 1936, it merged its teaching interests with Lingnan University. On the day that the Dr. Sun Yat-Sen Medical College came into existence, Hackett Medical College presented the new institution its student body, its good will, and its thirty-eight years of tradition and prestige.

In 1930 the Board of Directors of Canton Hospital turned over its administration to Lingnan University. Dr. Sun Fo, a member of the Board of Directors of Lingnan University, and President Chung Wing-Kwong proposed the establishment of a large medical college as a fitting memorial of Dr. Sun Yat-Sen's medical education at Canton Hospital. Thus the Dr. Sun Yat-Sen Medical College came into being in 1936.

Buildings and Facilities

In 1934 two of the old hospital blocks were demolished and a four-story concrete building was erected on their site. The ground floor of this building is used for the general business office, the pharmacy, the clinical laboratory, consultation rooms, for private patients, and the departments of radiology and physical therapy. The remaining three floors, with a capacity of 80 beds, are used to house the in-patients. The north annex to this building is two stories high, the ground floor being used as the out-patient department, and the upper floor being the operating unit. The cost of this new structure is approximately \$200,000.

In 1935 another old block in front of the hospital was torn down, and a five-story Medical College was erected with a grant of \$500,000 from the National Government. On the ground floor there are a medical library, reading rooms, an auditorium, offices of the dean and registrar, and a meeting room for the executive officers. On the other floors are lecture rooms, dissection rooms, student laboratories, research laboratories, and offices for the departments of anatomy, physiology, pharmacology, bio-chemistry, pathology, bacteriology, and parasitology. On the roof are small houses to keep animals for experiments.

In 1937, work on the construction of a six-story southern annex to the hospital and an additional two stories to the main hospital building was started. The lower two floors of the annex will be used for the extension of the out-patient department and the health clinics. The hospital will be able to accommodate 250 beds when these additions are completed.

The Hackett Medical Center has about 100 beds and is now erecting a building which will have a large out-patient department and a capacity of 150 beds. With these hospitals and the laboratories, the facilities for training medical students are adequate.

The Board of Trustees for the Administration of the Indemnity Funds Remitted by the British Government has just promised a grant of \$60,000 for the erection of a public health centre in Lingnan University. A site is already allotted for this purpose.

The college maintains three health stations—one at Sun Tsuen (新村), one at Lingnan, and one at Chung Fa (從化) under the auspices of the Rural Reconstruction Bureau of Chung Fa (從化)—and a hospital on the Lingnan campus for the villagers. All these offer special opportunities for training in public health.

The superintendent of the Municipal Hospital for Mental Diseases has permitted our students to have their practical training in psychiatry there.

Program of Study

There are seven departments in the Medical College: 1. Anatomy (including histology, embryology, and neuro-anatomy), 2. Physiology, (including pharmacology and bio-chemistry), 3. Pathology (including bacteriology and parasitology), 4. Medicine (including dermatology, syphilology, pediatrics, neurology, and psychiatry), 5. Surgery (including radiology, ophthalmology, and oto-naso-laryngology), 6. Obstetrics and Gynecology, and 7. Public Health.

The college offers a six-year course in accordance with the curriculum set down by the Ministry of Education of the National Government. The first year and some of the second year courses are given on the Lingnan University campus where the necessary facilities are available. The first and second year medical students reside at Lingnan University. After the second year, all lectures are given in the Medical College, and women students stay and board in the Hackett Medical Center while men students reside at Lingnan University.

The second and third years are devoted to the study of pre-clinical subjects, the fourth and fifth years to clinical subjects, while the sixth year is for hospital internship. Both clinical training and hospital internship are taken at Canton Hospital and the Hackett Medical Center. Practical training in public health may be taken in the various health centers conducted by the Medical College.

First Year

- Government 2. PARTY PRINCIPLES (黨義).
 Chinese 1 a-b. INTRODUCTION TO CHINESE LITERATURE (文學導論).
 Classroom 3 hours; two semesters. Total 108 hours.
 English 1 a-b. FRESHMAN ENGLISH (第一年級英文).
 Classroom 3 hours, laboratory 4 hours; two semesters. Total 252 hours.
 Physics 2 a-b. OUTLINE OF PHYSICS (物理學大綱).
 Classroom 4 hours, laboratory 3 hours; two semesters. Total 252 hours.
 Chemistry 1 a-b. GENERAL INORGANIC CHEMISTRY (無機化學概論).
 Classroom 3 hours, laboratory 6 hours; two semesters. Total 334 hours. The laboratory work of the second semester is in qualitative analysis (108 hours).
 Biology 2. ZOOLOGY (動物學).
 Classroom 2 hours, laboratory 6 hours; 1st. semester. Total 144 hours.
 Biology 3. BOTANY (植物學).
 Classroom 2 hours, laboratory 6 hours; 2nd. semester. Total 144 hours.
 Med. 1 a-b. MILITARY FIRST-AID I (戰事救護訓練).
 Classroom 1 hour; 2 semesters. Total 36 hours.
 PHYSICAL EDUCATION I. (體育).

Second Year

- Business 54. STATISTICAL METHODS (統計學).
 Classroom 1 hour, laboratory 4 hours; 1st. semester. Total 90 hours.
 Chemistry 22. ANALYTICAL CHEMISTRY (分析化學).
 Classroom 1 hour; laboratory 6 hours; 1st. semester. Total 126 hours.
 Chemistry 24. INTRODUCTION TO ORGANIC CHEMISTRY (有機化學概論).
 Classroom 3 hours; laboratory 6 hours; 1st. semester. Total 162 hours.
 Med. 21 a-b. ANATOMY (解剖學). Naked-eye study of the living human body by complete dissection of cadavers, study of the skeleton, and demonstrations on living subjects by various means, especially the X-rays.
 Classroom 1 hour, laboratory 2 hours; 1st. semester.
 Classroom 4 hours, laboratory 11 hours; 2nd. semester. Total 324 hours.
 Med. 22 a-b. HISTOLOGY (組織學). Microscopic study of tissues and organs by slides and preparations with practical methods.
 Classroom 1 hour, laboratory 2 hours; 1st. semester.
 Classroom 1 hour, laboratory 3 hours; 2nd. semester. Total 126 hours.
 Biology 24. EMBRYOLOGY (胚胎學).
 Classroom 1 hour, laboratory 2 hours; 1st. semester.
 Classroom 1 hour, 2nd. semester. Total 64 hours.
 Med. 23. NEURO-ANATOMY (神經系解剖學). Course on the anatomy of the central and peripheral nervous system, its localized functions and connections. Classroom 1 hour, laboratory 2 hours; 2nd. semester. Total 54 hours.
 Biology 75. PARASITOLOGY (寄生蟲學).
 Classroom 2 hours, laboratory 4 hours; 1st. semester. Total 108 hours.
 Med. 24. BIOCHEMISTRY I (生物化學). The course covers the chemistry of the cell, tissues, systems, and organs, and the principles of nutrition, digestion, absorption, and excretion, to enable the student to form a clear conception of metabolism and other chemical processes in the living body. In the lectures, time is devoted to understanding of the different biochemical laws and problems. In the laboratory, students become familiar with quantitative and qualitative methods.
 Classroom 1 hour, laboratory 3 hours; 2nd. semester. Total 72 hours.
 Med. 25. PHYSIOLOGY I (生理學). Study of the living mechanism: (1) of the cells and tissues, (2) of organs and systems and (3) of the body as a whole; the effects of heredity, the development and relationships of the different organs and systems, the changes that take place during the growth and decline of man. Experiments are performed on animals.
 Classroom 2 hours, laboratory 5 hours; 2nd. semester. Total 126 hours.
 Med. 26 a-b. MILITARY FIRST-AID II (戰事救護訓練). Continuation of Med. 1 a-b.
 Classroom 1 hour, 2 semesters. Total 36 hours.
 PHYSICAL EDUCATION II. (體育).
 Third Year
 Med. 51. BIOCHEMISTRY II (生物化學). Continuing Biochemistry I.
 Classroom 3 hours, laboratory 7 hours; 1st. semester. Total 180 hours.
 Med. 52. PHYSIOLOGY II (生理學). Continuing Physiology I.
 Classroom 2 hours, laboratory 5 hours; 1st. semester. Total 126 hours.

Med. 53. a-b. PHARMACOLOGY (藥理學). The student is taught first the chemistry of drugs, their sources and properties, composition and methods of assay; next the art of preparation, dispensing, and prescribing of drugs; finally the biological action of drugs on the living body and the different tissues and organs. Chinese drugs are included as far as possible. In the laboratory all these actions are verified by actual experiments.

Classroom 1 hour, laboratory 3 hours; 1st. semester.
Classroom 2 hours, laboratory 5 hours; 2nd. semester. Total 198 hours.

Med. 54 a-b. BACTERIOLOGY (細菌學). In General Bacteriology the course covers the biology of bacteria, modes of infection and immunization, methods of study and culture; in Special Bacteriology, the different bacteria, their special characteristics, technique of identification and culture, and the prevention, control, and eradication of infectious diseases. Clinical demonstrations are given.

Classroom 2 hours, laboratory 5 hours; 1st. semester.
Classroom 2 hours; laboratory 3 hours; 2nd. semester. Total 216 hours.

Med. 55 a-b. PATHOLOGY (病理學). A course on the nature of diseases and their effect on the body, general and regional or special. Gross and microscopical changes are studied with the aid of autopsies, fresh specimens, preparations, and slides; also clinical conferences.

Classroom 2 hours; laboratory 5 hours; 1st. semester.
Classroom 3 hours; laboratory 7 hours; 2nd. semester. Total 306 hours.

Med. 56. PHYSICAL DIAGNOSIS (物理診斷學). A practical course on the fundamentals of clinical practice, applied anatomy, history-taking, examination of the normal and of the sick. Stress is laid on method, thoroughness, efficiency, the gentle handling of the patient, and the demeanor of the doctor.

Classroom 2 hours, laboratory 4 hours; 2nd. semester. Total 96 hours.

Med. 57. CLINICAL LABORATORY DIAGNOSIS (實驗診斷學). A practical course on the collection and laboratory examination and diagnosis of body fluids, excretions, secretion, and pathological specimens as generally required in clinical practice.

Classroom 2 hours, laboratory 4 hours; 2nd. semester. Total 96 hours.

Med. 58 a-b. MILITARY FIRST-AID III (戰事救護訓練). Continuation of Med. 26 a-b.

Classroom 1 hour, 2 semesters. Total 36 hours.

PHYSICAL EDUCATION III (體育).

Fourth Year

Med. 71 a-b. MEDICINE (內科學). Systematic lectures with emphasis on prevention and epidemiology supported by clinical demonstrations. Clinical work on diagnosis and treatment is confined to the out-patient departments and health clinics, under tutorship.

Classroom 4 hours, clinical work 6 hours; 1st. semester.
Classroom 4 hours, clinical work 5 hours; 2nd. semester. Total 342 hours.

Med. 72 a-b. SURGERY (外科學). Principles of surgery and surgical handicraft by lectures on general and special surgery, supported by

demonstrations, practical work, and clinical work in the out-patient departments and health clinics under tutorship.

Classroom 3 hours, clinical work 9 hours; 1st. semester.
Classroom 3 hours, clinical work 7 hours; 2nd. semester. Total 396 hours.

Med. 73 a-b. TROPICAL MEDICINE (熱帶病學). Diseases of the tropics with emphasis on prevention and eradication, from actual examples and supported by clinical demonstrations.

Classroom 1 hour, laboratory 1 hour; 1st. semester.
Classroom 1 hour, laboratory 1 hour; 2nd. semester. Total 72 hours.

Med. 74. RADIOLOGY (放射學). The physics of X-rays and radium and their uses in medicine; practical knowledge in diagnosis and treatment.

Classroom 1 hour, laboratory 1 hour; first semester. Total 36 hours.

Med. 75 a-b. PEDIATRICS (兒科學). In addition to diseases of children, attention is directed to development, nutrition, hygienic supervision, correction of psychological defects, formation of healthy habits, and prevention of disease. Opportunity will be given for independent observations with clinical demonstrations.

Classroom 2 hours, clinical work 2 hours; 1st. semester.
Classroom 2 hours clinical work 3 hours; 2nd. semester. Total 162 hours.

Med. 76 a-b. DERMATOLOGY AND SYPHILOLOGY (皮膚花柳學). Course on the important general and special diseases of the skin, with models and clinical demonstrations.

Classroom 1 hour, clinical work 1 hour; 1st. semester.
Classroom 1 hour, clinical work 1 hour; 2nd. semester. Total 72 hours.

Med. 77 a-b. NEUROLOGY AND PSYCHIATRY (神經精神病學). General and special studies on etiology, symptomatology, diagnosis, and treatment, with demonstrations and clinical work.

Classroom 1 hour, clinical work 2 hours; 1st. semester.
Classroom 1 hour, clinical work 2 hours; 2nd. semester. Total 108 hours.

Med. 78. OBSTETRICS AND GYNECOLOGY I (產婦科學). In obstetrics the course covers the physiology and hygiene of normal pregnancy and the management of normal labor; diseases of pregnancy and their treatment; abnormal labor; puerperium; prenatal and postnatal care; care of the new-born; hygiene of the mother and methods of preservation of health and prevention of disease.

In gynecology the course presents the anatomy of female generative organs, their diseases and effect on the whole system; knowledge of sex development, sex education, and prevention of sexual diseases. Clinical work on diagnosis and treatment under tutorship.

Classroom 2 hours, clinical work 2 hours; 2nd. semester. Total 72 hours.

PHYSICAL EDUCATION IV. (體育).

Fifth Year

Med. 101 a-b. MEDICINE (內科學). In the fifth year the students act as clinical clerks in the wards to learn history-taking, complete examination of patients, diagnosis and treatment, prevention and prognosis, under tutorship and with help of conferences. Under suitable conditions and in

the rural hospital, students may visit the homes of patients to investigate the causes and the environment of infectious diseases.

Clinical work 4 hours; 1st. semester.
Clinical work 4 hours; 2nd. semester. Total 144 hours.

Med. 102 a-b. SURGERY (外科學). In the fifth year, students act as dressers in the wards and operating theatres, and attend demonstrations in operative surgery.

Clinical work 3 hours; 1st. semester.
Clinical work 3 hours; 2nd. semester. Total 108 hours.

Med. 103 a-b. PEDIATRICS (兒科學). In the fifth year students act as clinical clerks in the wards and work in the out-patient departments and health clinics.

Clinical work 2 hours; 1st. semester.
Clinical work 2 hours; 2nd. semester. Total 72 hours.

Med. 104 a-b. DERMATOLOGY AND SYPHILOLOGY (皮膚花柳學). In the fifth year students work in the out-patient departments.

Clinical work 1 hour; 1st. semester.
Clinical work 1 hour; 2nd. semester. Total 36 hours.

Med. 105 a-b. UROLOGY (泌尿科學).

Classroom 1 hour, clinical work 1 hour; 1st. semester.
Classroom 1 hour, clinical work 1 hour; 2nd. semester. Total 54 hours.

Med. 106 a-b. OBSTETRICS AND GYNECOLOGY II (產婦科學). Continuing the 4th. year work; clinical work in the Health Clinics, out-patient Departments and wards as clinical clerks. Personal delivery and complete care of five normal confinement cases with attendance on others are required of every student.

Classroom 3 hours, clinical work 6 hours; 1st. semester.
Clinical work 4 hours; 2nd. semester. Total 234 hours.

Med. 107 a-b. ORTHOPEDIC SURGERY (矯形外科學).

Classroom 1 hour, clinical work 1 hour; 1st. semester.
Clinical work 1 hour; 2nd. semester. Total 54 hours.

Med. 108 a-b. PUBLIC HEALTH (公共衛生科學). This course teaches how a complete program of health protection and promotion for the masses of people could be carried out. Students, having acquired a basic knowledge of medicine and clinical experience, study the organization and administration of public health. The primary purpose of this course is to enlarge upon and complete the student's conception of modern medicine, its ideals, and aims; to teach the student the methods and practises in the protection of the health of the people; and to create an understanding of the proper relationship between medical science and society. In the lectures, special attention is paid to the present medical condition of our country and the present state of public health administration. If time permits, the student is required to make an independent survey of a locality and report on its medical condition. Besides attending the various health clinics and serving in the rural hospitals during the fourth and fifth years, in the sixth or interne year the student shall spend at least one month in public health work.

Classroom 2 hours, clinical work 4 hours; 1st. semester.
Classroom 3 hours, clinical work 6 hours; 2nd. semester. Total 270 hours.

SPECIAL COURSES FOR SUB-COLLEGIATE STUDENTS 143

Med. 109 a-b. OPHTHALMOLOGY (眼科學).

Classroom 2 hours, clinical work 1 hour; 1st. semester.
Classroom 1 hour, clinical work 2 hours; 2nd. semester. Total 108 hours.

Med. 110 a-b. OTOLARYNGOLOGY (耳鼻喉科學).

Classroom 1 hour, clinical work 1 hour; 1st. semester.
Classroom 1 hour, clinical work 2 hours; 2nd. semester. Total 90 hours.

Med. 111. MEDICAL JURISPRUDENCE (法醫學).

Classroom 1 hour, laboratory 1 hour; 2nd. semester. Total 36 hours.

Med. 112. HISTORY AND ETHICS (醫學歷史及倫理學).

Classroom 1 hour; 2nd. semester. Total 18 hours.

PHYSICAL EDUCATION V. (體育).

Sixth Year

In the sixth year, each student is required to present an essay on some subject in one of the branches of medicine and to serve as interne in the Canton Hospital and the Hacket Medical Center. During the year, the student gives services in medicine (including pediatrics, neurology, dermatology, and syphilology) for four and half months, in surgery (including orthopedic surgery, urology, ophthalmology, and otolaryngology) for four and half months, in obstetrics and gynecology for one and half months, and in public health for one month; he is also given two weeks vacation during the year.

SPECIAL COURSES FOR SUB-COLLEGIATE STUDENTS

STUDENTS who have graduated from a middle school, or who have had an equivalent training but are unable to satisfy the entrance requirements for admission to the Freshman class, may be admitted to the Special Class for sub-collegiate students. Courses are provided primarily for Freshmen who have been admitted with one or more conditions; students, however, who have more than 10 points of conditions are classified as special students.

The courses in Chinese Literature and Civilization for overseas students are included here (see Chinese F, G, K, L, M, N, P, and Q), because these courses are designed to enable students without a knowledge of written Chinese to qualify for admission as regular students.

Students who have not yet graduated from middle school (or the equivalent) are not eligible for admission to this class. Such persons are referred to the Lingnan Middle School.

Special sub-collegiate students live in the dormitories with the Freshmen and are subject to the same regulations. Regular students in this class pay \$180 for tuition each year. Students taking one or more of these special courses, or Middle School courses to remove conditions, pay tuition at the regular rate of collegiate courses.

The passing grade is 60. The maximum work taken should not in general exceed 18 credit hours. Courses listed below may not be accepted for collegiate credit. Application for admission should be made to the Registrar.

CHINESE A, B (國文補習科). A thorough study of selected essays, assigned reading, reports, and compositions. 4 hours; two semesters.

CHINESE F (華僑生國文第一年,上). Beginning course in Chinese for overseas students who do not know any Chinese: Penmanship, primary Chinese radicals, sentence construction, conversation.

Classroom 6 hours, laboratory 3 hours (7 points); one semester.

CHINESE G (華僑生國文第一年,下). Chinese for overseas students: penmanship, analysis of characters, grammar (the nine parts of speech), compositions of 100 words.

Classroom 6 hours, laboratory 3 hours (7 points); one semester.

CHINESE K (華僑生國文第二年,上). Second year Chinese for overseas students: advanced grammar, descriptive writing (200-300 words), letter writing, punctuation.

Classroom 6 hours, laboratory 3 hours (7 points); one semester

CHINESE L (華僑生國文第二年,下). Second year Chinese for overseas students: grammar, essay writing, newspaper vocabulary, and style.

Classroom 6 hours, laboratory 3 hours (7 points); one semester.

CHINESE M (華僑生國文第三年,上). Third year Chinese for overseas students: reading of works in literary style, 500 word compositions.

Classroom 4 hours, laboratory 2 hours (5 points); one semester.

CHINESE N (華僑生國文第三年,下). Third year Chinese for overseas students: study of types and essays, 1000 word compositions.

Classroom 4 hours, laboratory 2 hours (5 points); one semester.

CHINESE P (華僑生國文第四年,上). Fourth year Chinese for overseas students.

Classroom 4 hours, laboratory 2 hours (5 points); one semester.

CHINESE Q (華僑生國文第四年,下). Fourth year Chinese for overseas students.

Classroom 4 hours, laboratory 2 hours (5 points); one semester.

ENGLISH A, B (英文補習科). Sub-Collegiate English. A make-up course for students entering with a condition in English. Systematic review of grammar with frequent written and oral exercises. Directed reading of selected modern essays and short stories with special attention to vocabulary building and the development of reading ability.

Classroom 3 hours, laboratory 2 hours (4 points); two semesters.

MATHEMATICS F (代數補習科). Algebra, from quadratics; indices, radicals, graphs, progressions, logarithms, binomial theorem, etc. for entrance make-up work.

3 hours; one semester.

MATHEMATICS H (立體幾何補習科). Solid Geometry. A make-up course for students with inadequate preparation for entrance to college in science or engineering.

2 hours; one semester.

MATHEMATICS K (平面三角補習科). Trigonometry. A make-up course for students with inadequate preparation for entrance to college in science, engineering, agriculture, or business.

2 hours; one semester.

ACADEMIC CALENDAR 1937-1938

1937

Summer School

July 14 (Wednesday)—August 14 (Saturday)

1937

Entrance Examinations

July 8-10 Thursday-Saturday Entrance examinations
 August 26-28 Thursday-Saturday Entrance examinations

1937

Semester I

September	6-7	Monday-Tuesday	Registration and payment of fees
September	8	Wednesday	Classes begin for all students
September	9	Thursday	Formal opening
September	18	Saturday	Last day for deferred examinations
September	18	Saturday	Last day for late registration and change of enrollment
September	18	Saturday	Last day for applications for financial help from Students' Aid Committee
October	9	Saturday	Independence Day (Holiday)
October	21	Tuesday	Last day for dropping courses without penalty
November	4	Thursday	Mid-term examinations begin
November	12	Friday	Birthday of Dr. Sun (Holiday)
November	30	Tuesday	Last day for applications for American scholarships
December	25	Saturday	Christmas (Holiday)

1938

January	1-3	Saturday-Monday	New Year Vacation (Holiday)
January	4-11	Tuesday-Tuesday	Final examinations
January	12	Wednesday	First semester closes

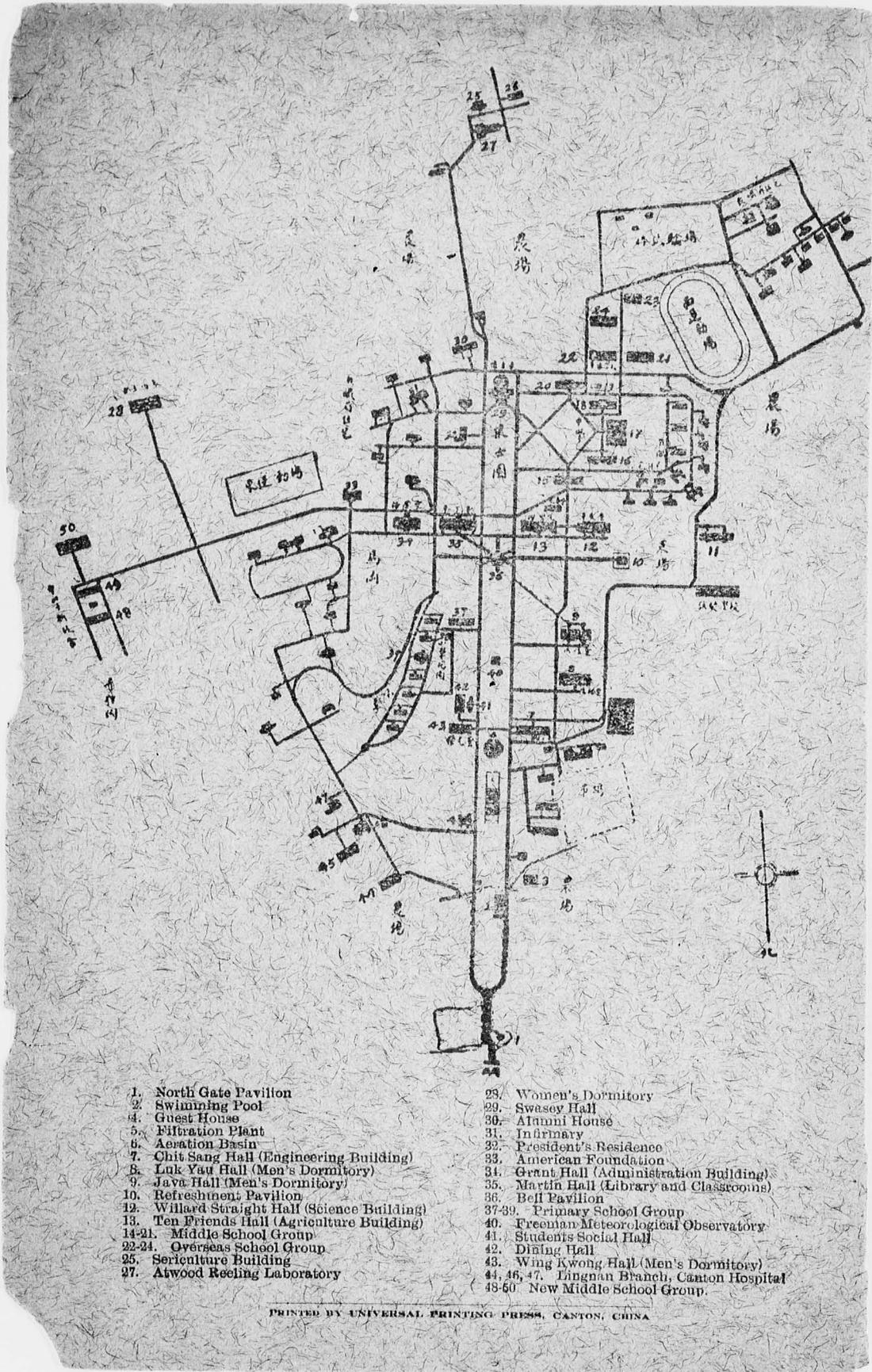
1938

Semester II

January	13-15	Thursday-Saturday	Entrance examinations
January	20-21	Thursday-Friday	Registration and payment of fees
January	22	Saturday	Classes begin for all students
February	3	Thursday	Last day for deferred examinations
February	3	Thursday	Last day for applications for financial help from Students' Aid Committee
February	3	Thursday	Last day for late registration and change of enrollment
March	5	Saturday	Last day for dropping courses without penalty
March	12	Saturday	Dr. Sun's Memorial Day (Holiday)
March	28	Monday	Mid-term examinations begin
March	29	Tuesday	Seventy-two Heroes' Day (Holiday)
April	4-7	Monday-Thursday	Spring vacation
May 26 - June 2	Thursday-Thursday	Final examinations	
June	5	Sunday	Baccalaureate Service
June	7	Tuesday	Commencement day

Holidays

SEMESTER I						SEMESTER II						
S	M	T	W	Th	F	S	M	T	W	Th	F	S
					X			X				X
					X		X	X	X	X		
X	X											
					X							



0083

LINGNAN UNIVERSITY



INFORMATION
AND
CURRICULUM
1946-1948

CANTON, CHINA

0084

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5

GENERAL INFORMATION

Admission to the Freshman Year

The following are qualified to apply for admission to the Freshman year :

Graduates of middle schools registered with the Ministry of Education.

Graduates of middle schools in Hongkong and foreign countries registered and approved by the respective governments.

Students who have passed the Matriculation Examination held by the University of Hongkong.

Students who hold certificates of the Senior Local Oxford or Cambridge Examinations.

The following credentials are required :

1. An application-form properly filled out by the applicant. The form provided by the University must be used.
2. An official diploma or certificate of graduation from an accepted middle school.
3. A transcript of all completed courses, sent direct through the mail to the Registrar, by the appropriate officer of the applicant's middle school. The transcript should not be brought by the applicant.

Note: A supplementary transcript, covering courses not completed when the first transcript was issued, should be sent as soon as possible after the close of the semester. Without this final record, the applicant can be admitted only provisionally.

If the name in English used in the transcript is not the same as the applicant's name in Chinese, a romanized Chinese name must also be given and certified by the appropriate officer.

4. A specific recommendation from the principal, testifying to the applicant's character, and to his ability to do college work.
5. Four two-inch photographs.
6. A small amount of application fee to be collected at the time of registration for Admission.

ENTRANCE EXAMINATIONS

Entrance examinations are given in July at the University. The actual dates for the examinations for each year are to be found on

the Academic Calendar or announced in the Canton and Hongkong newspapers. All students applying for admission by examination must appear for the entrance examinations at the time designated. The examinations will not be given at any other time. The subjects and schedule of the examinations are as follows :

	8:30-10:30	10:45-12:45	2:30-4:30
First day	English	Mathematics	History and Geography
Second day	Chinese	Chemistry and Physics	Biology and Civics.

Applicants from accredited middle schools, upon the recommendation of their principals, may take the examinations only in English, Chinese and Mathematics, depending on their standing in the class.

Students who have passed the examination conducted by the University of Hongkong with a mark which qualifies for admission to that university, or those who hold certificates of the Senior Local Oxford or Cambridge examinations may be excused from the entrance examination in such subjects as are covered by the certificate, except Chinese and English.

Entrance Conditions

Applicants who are deficient in certain subjects may be admitted with conditions and will be given an opportunity to remove such conditions. Special courses are offered in Chinese, English, History, and Physics to help those students reach the required standard.

Requirements for Admission with Advanced Standing

An applicant for admission with advanced standing must have a grade ratio above 5.0, or its equivalent; that is, his work in his previous college courses must have been of at least average grade.

Credentials as follows should be forwarded to the Registrar as early as possible :

1. An application-form properly filled out by the applicant.
2. A Transcript giving details of all completed college courses sent direct through the mail by the proper officer of the college last attended. If some courses are still under way a

supplementary transcript should be furnished as soon as possible. Without this final record, admission can be only provisional. If more than one college has been previously attended, a transcript from each college is necessary.

3. A personnel-form filled out by a responsible officer of the college last attended.
4. All transferred students should pass the Transfer Examination of this university.
5. All credentials should reach the Registrar's Office not later than the closing day of the registration of entrance examination.
6. No transfer student is admitted to the Senior Class.

ADMISSION FOR OVERSEAS STUDENTS

High school graduates from abroad may be excused from entrance examinations. An overseas candidate who wishes to request exemption must send in his preliminary transcript sufficiently early for it to reach the Registrar not later than April 15th for the Fall semester, and not later than November 15th for the spring semester. He will be considered for exemption from entrance examinations on two grounds: first, the standing of the high school attended, and second, the amount and quality of work done by the candidate. If the Registrar is not satisfied, he will require the usual examinations prescribed for candidates. He will, also, of course, condition the candidate in any subject prerequisite to his proposed major in college but not presented by transcript.

Since overseas candidates are usually not sufficiently trained in Chinese to take up college work in it, they are permitted to defer fulfillment of the entrance requirement in Chinese language, literature and history.

As to science, ordinarily, three years of science (Biology, Chemistry, and Physics), are prescribed. If an overseas candidate presents three years of science, at least one of the courses should be a full laboratory course taken in one of the last two years, with laboratory note-books properly certified for submission to the Lingnan authorities. If the candidate intends to major in science, this laboratory course must be Physics; if he intends to major in arts, the course may be Biology, Chemistry or Physics.

An alternative science requirement is two years of science plus a general examination in practical scientific and mechanical knowledge. If this arrangement is chosen, at least one of the courses must be a laboratory course, Physics for intending science majors; Biology, Chemistry or Physics for intending arts majors, taken in one of the last two years, with properly certified laboratory notebooks. The general examination which supplements this two-year offering is designed to test the candidate in such applied scientific information as comes in the way of a person living in an industrial and mechanized civilization.

Since overseas students cannot graduate or receive the college degree without a knowledge of college Chinese, the University has organized a special program of Chinese studies for overseas college students, the completion of which will qualify them for graduation. This special program, as has been tested, is much more satisfactory than the usual method of tutoring or the simple method of organizing overseas sections. It is recognized that this change of policy goes a considerable way towards removing the more serious difficulties facing overseas students who wish to graduate. A general outline of the program is given below:

(1) Four years of special Chinese will be required of overseas students.

	Hours per week		Points
	lec.	lab.	
Chi. F First Year Chinese, 1st semester	6	2	7
Chi. G First Year Chinese, 2nd semester	6	2	7
Chi. K Second Year Chinese, 1st semester	6	2	7
Chi. L Second Year Chinese, 2nd semester	6	2	7
Chi. M Third Year Chinese, 1st semester	4	2	5
Chi. N Third Year Chinese, 2nd semester	4	2	5
Chi. P Fourth Year Chinese, 1st semester	4	2	5
Chi. Q Fourth Year Chinese, 2nd semester	4	2	5

(2) Overseas Chinese students who have completed the last year Chinese course and can pass the special examination which includes the part on composition of the College Chinese Entrance Examination may have regular College credits. The regulation governing the giving of credits is as follows:

A.

- a. Those who start from the 1st year till completion of the 4th year Chinese—12 credits.

- b. Those who start from the 2nd year till completion of the 4th year Chinese—10 credits.
- c. Those who start from the 3rd year till completion of 4th year Chinese—8 credits.
- d. Those who start from the 4th till the completion of it—6 credits.

B. Those who have not completed the last year will not receive any college credits.

C. Those who have completed the last year overseas Chinese are not required to take 6 credits of the regular College Chinese.

(4) Overseas students must take the course "Chinese Civilization" offered in English for them in their 1st year entering the University. This is a 2 semester course, 3 hours each semester, total 6 credits.

(5) The 1st, 2nd and 3rd year students, besides taking 8 hours of Chinese, can register for 10 credits of other courses. The 4th year students, besides 6 hours of Chinese, can register for 12 credits of other courses.

(6) An Examination committee is appointed by the Dean of the University to give the Overseas Chinese examination. The committee may consist of the Chairman of Department of Chinese, the Registrar, instructors of Overseas Chinese Courses and others whom the Dean may appoint.

High school graduates wishing to enter Lingnan may take the regular University of Hawaii Entrance Examination in Hawaii. Applications should be made to the Director of Admissions of the University of Hawaii on its regular entrance blank together with a doctor's certificate, five small photographs, and an application fee of one dollar U. S. Currency. Upon recommendation of the University of Hawaii as to admission or rejection, based on the results of the University of Hawaii Entrance Examination and the high school record as submitted on the entrance blank, Lingnan will make the final decision of acceptance or rejection.

ACCREDITED SCHOOLS

Schools with standards similar to those of the Middle Schools of Lingnan University may become accredited schools and may recom-

mend their graduates for admission. The similarity of standards is determined partly by periodic inspection by a representative of Lingnan University, and partly by the recommended graduates in the entrance examinations and after admission.

REGISTRATION

All students must register in person. In general the procedure of registration is the same each year. But students should pay attention to announcements made by the office of the Registrar before and during the period of registration. On the day of registration, all new and old students must first get their registration forms and cards. They should next consult their advisers, who will help them in selecting courses in their major field of study. New students will be given registration permits and assigned to advisers by the Registrar. After the enrolment cards have been filled out and signed by the advisers, they are taken to the Registrar for approval.

The payment of school fees should be made within the dates prescribed by the Registrar's Office. In exceptional cases, students who are unable to pay all of their fees on time may make arrangement with the Dean of the University for later payment.

Students who have not completed registration within the regular registration period indicated in the Academic Calendar will be penalized by deducting three credits from their study load for the first week and 6 credits for the second week. No student, old or new, may register if he arrives more than two weeks later than the first day of class work.

CHANGE IN ENROLMENT

After classes begin no changes in courses can be made by students except by permission of the Registrar, which will be given only in exceptional cases and for reasons that could not have been foreseen prior to the opening day of classes. Permission to enroll in courses is not given later than two weeks after the date for the first classes in each semester. No change can be recognized until it has been entered on the student's enrolment card and endorsed by the Registrar.

No course may be dropped later than four weeks after the beginning

of the semester except for reasons of ill-health and upon recommendation of the University physician. A course dropped later than this receives an arbitrary grade of 0.

Freshmen in the first semester, however, whose work at mid-semester appears below standard in several subjects, may be permitted, with the consent of their adviser and the Registrar, to drop one subject without penalty.

CHANGE OF COLLEGE OR DEPARTMENT

A student is permitted to transfer to another department or another college only once, and only by permission of the Standing Committee of the Joint Faculty Meeting. Those who are planning to change their majors in the following semester should submit their applications to the Registrar one month before the close of that current semester, and wait for the decision of the Standing Committee. No Freshman is allow to change his majors.

MINIMUM LOAD

A student must do work amounting to at least fourteen credits each semester, except in case of illness or when he is doing outside work of a recognized character. When one or more courses are dropped on account of illness or for any other reason, a student may not remain in college with a minimum load of less than ten credits.

CLASSIFICATION

A student is ranked according to the number of credits he has secured and the quality of work done in securing that number of credits. A student with fewer than 25 credits is ranked as a Freshman. One who has been in residence a full year and has gained 25 credit-units is ranked as a sophomore. Students who have obtained 70 credit-units are ranked as Juniors. Students with 100 or more credit-units are ranked as Senior. An overseas student is equally ranked regardless of his standing in Chinese.

SYSTEM OF MARKING IN COURSES

(Credits, Point Mark, Weighted Credits, Grade Ratio)

CREDITS

All academic work for which a student is duly enrolled is measured

in terms of credits. Credits are allowed for courses (that is, for classes attended, with work completed and examinations passed) at the rate of one for each hour of lecture or recitation, or for each three hours (or, in certain cases, two hours) of laboratory work per week per semester. Fractional credits are not granted.

PASSING MARK FOR COURSES

Teacher's marks are reported on a percentage basis, with 60 as the passing mark for all courses in all colleges.

POINT MARK

Teacher's marks are transmuted in the Registrar's Office according to the following table of equivalents:

Point Mark	Percent	Point Mark	Percent
10 for	95 & above	4 for	65 to 69
9	90 to 94	3	60 to 64
8	85 to 89	2	55 to 59
7	80 to 84	1	50 to 54
6	75 to 79	0	below 50
5	70 to 74		

WEIGHTED CREDITS

A student's total earned weighted credits for any course shall be the product of the number of credits in that course and the point mark attained; thus

$$\text{Point mark} \times \text{Credits} = \text{Weighted credits}$$

A student's grade ratio, which is used to determine his academic efficiency, is the quotient obtained by dividing the total weighted credits by the total enrolled credits.

$$\frac{\text{Total weighted credits}}{\text{Total enrolled credits}} = \text{Grade Ratio}$$

APPLICATION OF THE GRADE RATIO

Disqualification and Suspension.

A student who fails to pass one half of the total number of credits which he carries in any semester will be automatically disqualified.

A student attaining a grade ratio of less than 2.5 in any semester is suspended for at least a semester.

A student will be suspended from school if his grade ratios for two consecutive semesters are below 3.0.

A student will be suspended from school if his grade ratios for three consecutive semesters are less than 4.0.

PROBATION

A student with a grade ratio of less than 4.0 in any semester shall be put on probation and allowed to enroll for not more than 14 credits in the following semester; such student is to be automatically suspended if his grade ratio at the end of the semester on probation is less than 3.0.

A student whose grade ratios for two consecutive semesters are above 3.0 and below 4.0 shall be put on probation and allowed to enroll not more than 14 credits in the following semester. Such student will be automatically suspended if his grade ratio at the end of the semester on probation is less than 4.0.

GRADE RATIO OF 4.0 TO 6.9

A student with a grade ratio of 4.0 to 6.9 in any semester shall be allowed to enroll 17 or 18 credits in the following semester.

GRADE RATIO OF 7.0 AND ABOVE

A student with a grade ratio above 7.0 may enroll for a maximum of 21 credits.

RE-ADMISSION OF SUSPENDED STUDENTS

Re-admission of suspended students shall in no case be sooner than after the lapse of one semester, and action on all applications shall be taken at the discretion of the Standing Committee of the Joint Faculty.

EXCHANGE STUDENTS

Lingnan University is again prepared to accept American undergraduates for one year's study under its Exchange Student program which was inaugurated in 1933 and continued until 1938 when a temporary suspension was forced by the war. Under this program a limited number of carefully selected American college students,

both men and women, may be chosen by the Trustees of Lingnan University in New York to pursue either their sophomore or junior year at Lingnan. Tuition and dormitory fees are remitted for these students. Only those candidates will be appointed who have secured permission from their home institutions to spend one year at Lingnan University, it being understood that credits earned at Lingnan will be accepted by the home institution in full or substantially in full and may be applied towards the Exchange Students' graduation requirements. Selection of Exchange Students is entirely at the discretion of the Trustees of Lingnan University and they are not required to take either entrance or transfer examinations. American undergraduates interested in the possibility of spending their sophomore or junior year at Lingnan may obtain full information about the Exchange Student program by applying to the Trustees of Lingnan University, 150 Fifth Avenue, New York 11, New York.

WAR VETERANS OF THE UNITED STATES ARMY

Lingnan University is authorized and prepared to accept honorably discharged war veterans of the United States army desirous of pursuing a university education under the provisions of the "GI Bill of Rights". They may enter this University as regular students if they are qualified in Chinese, or as overseas students if not qualified in Chinese; or if they do not wish to be candidates for a degree they may be accepted as special students. Requirements for admission to the freshman class or to advanced standing are the same as for all other students entering the University in any of these categories. It is important, therefore, that war veterans eligible for this type of support satisfy themselves as to their eligibility for admission to Lingnan University in one of the three categories named above before proceeding to China. The University can then provide the candidates with letters of acceptance required by the Veterans Administration.

GRADUATE INSTITUTE OF NATURAL SCIENCES

The Lingnan Graduate Institute of Natural Sciences has facilities for graduate students in Biology, Chemistry and Physics research leading to the degree of Master of Science. A limited number of teaching fellowships is available. The regulations for admission to graduate standing may be obtained on application to the Registrar of the Graduate Institute.

UNION THEOLOGICAL COLLEGE.

GENERAL INFORMATION

The College is situated on the University Campus and functions as the University College of Theology. For information regarding all lectures, courses and Diplomas not relating to the University, applicants should apply direct to the Dean of the College.

The information below applies only to courses leading to degrees conferred by the Trustees of the Lingnan University.

ENTRANCE

Students are required to comply with the usual University regulations regarding entrance with addition of the following regulations.

- (a.) A letter of introduction from the authorities of the Church of which the candidate is a member must be presented on application for entrance.
- (b.) The student must satisfy the College examiners of fundamental knowledge of the Bible, both in text and in history.

DEGREES

For students registered at the University the degree of A. B. is granted, on satisfactory completion of courses, by the Trustees of the University. Information regarding other degrees and diplomas can be obtained from the Dean of the College.

HOSTELS

Students are required to live in Hostels supervised by Wardens elected by the College authorities. In general students recommended by one of the three co-operating Churches in the Union College are cared for by the Church, but students wishing to enter the College independently must apply direct to the College for admission to Hostels.

FEEES

All fees are payable to the College office and not to the University. The College is in affiliation with the University and all matters relating to finance are dealt with by corresponding departments.

EXAMINATIONS

In addition to the usual examinations required by the University regulations, the College requires each student to pass a comprehensive examination at the end of the third year in the three years' work, and a second comprehensive examination at the end of the fifth year in the subjects relating to Theology.

OTHER ACTIVITIES

The general activities of the University are open to students of this College.

FINANCIAL AID FOR STUDENTS

The University recognizes that many very deserving students are unable for a variety of reasons to pay the full cost of their fees and other expenses. It therefore tries to aid such students as much as it can from scholarship funds and by employing a large number to do part time work for the University for generous stipends.

Awards of aid are made for the full academic year with the understanding that aid will not be continued the second semester unless the student has maintained his scholastic standing and contributed to the administration of the institution.

Many students every year find employment for about ten hours a week in various departments of the Colleges. Clerks in Chinese or English are in particular demand. Persons willing to earn a portion of their expenses by such part time employment or by half time employment during the vacations may thereby show their eligibility for scholarship aid. Those most successful in their studies will receive preference in both scholarship grants and assignment of remunerative work. Inquiries should be made of the Students Aid Committee.

DEGREES

With the approval of the Ministry of Education, Lingnan University confers the following bachelor degrees upon successful candidates in the following majors:

Bachelor of Arts Majors in Chinese Literature, English, History, Government, Sociology, and Education in the College of Arts.

Bachelor of Arts in Business Administration
Majors in Economics or Business Administration
in the College of Arts.
Bachelor of Science Majors in Biology, Chemistry, or Physics in
the College of Science and Engineering.
Bachelor of Science in Engineering
Majors in Civil Engineering in the College of
Science and Engineering.
Bachelor of Science in Agriculture
Majors in Agronomy, Horticulture, or Animal
Husbandry in the College of Agriculture.
Bachelor of Medicine Majors in Medicine in the Sun Yat-sen
Memorial College of Medicine.

With the approval of the Ministry of Education, Lingnan University is also authorized to confer the degree of Master of Science upon successful candidates in the Divisions of Biology, Chemistry and Physics in the Graduate Institute of Natural Sciences.

The Trustees of Lingnan University hold a charter from the Regents of the University of the State of New York for conferring the degree of Bachelor of Arts and the degree of Bachelor of Science as well as the advanced degrees of Master of Arts and Master of Science. Candidates for any of these degrees must be recommended by a special committee to the Trustees of Lingnan University in New York City.

Curriculum Program for the Major in Chinese Literature

Freshman

		Sem. I	Sem. II
Gov. 2ab	Political Principles of Dr. Sun...	2	2
Chi. 1ab	Freshman Chinese	3	3
Eng. 1ab	Freshman English	4	4
His. 9ab 10ab or 11ab	Outline of Chinese History	3	3
Math. 1ab	General Mathematics	3	3
or Phys. 4ab	General Physics	4	4
or Chem. 1ab	General Chemistry	5	5
or Biol. 1ab	General Biology	3	3
or Geol. 1ab	General Geology	3	3
or Geog. 1ab	General Geography	3	3
Chi. 11ab	Chinese Reading	2	2
Chi. 22ab	Prose Selection	3	3
P. E. 1ab	Physical Education	0	0

Total 20-21-22 20-21-22

Sophomore

		Sem. I	Sem. II
His. 12ab	Western History	3	3
Phil. 2	Ethics	3	-
Phil. 3	Logic	-	3
Gov. 10ab	Principles of Government	} choose one.	3
Econ. 10ab	Principles of Economics		
Soc. 10ab	Principles of Sociology		
Gov. 45ab	Elements of Law		
Chi. 25ab	Chinese Etymology	2	2
Chi. 30ab	History of Chinese Literature	4	4
Eng. 21ab	Sophomore English	3	3
P. E. 2ab	Physical Education	0	0

Total 18 18

Junior

		Sem. I	Sem. II
Chi. 23ab	Poetry Selection	3	3
Chi. 55ab	Chinese Classics	3	3
Chi. 66	T'si Selection	3	-
Chi. 71	Chinese Drama Selection	-	3
Eng. 49ab	History of English Literature	3	3
Chi. 43ab	Phonology	2	2
Phil. 1	Introduction to Philosophy	3	-
Elective	.....	-	3
P. E. 3ab	Physical Education	0	0

Total 17 17

Senior

Chi. 24ab	Selections of Novel and Drama	2	2
Chi. 56ab	Literary Criticism	2	2
Chi. 77	Textual Criticism	2	-
Chi. 55cd	Chinese Classics	3	3
Chinese 99ab	Thesis	2	2
Electives	.....	6	6
P. E. 4ab	Physical Education	0	0

Total 17 15

Notes: 1. Total number of credits required for graduation: 142.
2. In course with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course No.	Lecture	Laboratory
Biol. 1ab	2	3
Eng. 1ab	3	2

Elective Courses for the Major in Chinese Literature

A. Ministry Electives

Course title	Credits	Course title	Credits
History of Chinese Philosophy	6	Literary Criticism	4
History of Western Philosophy	6	Study on Biographies	3
Modern History of China	4	Study on Chinese Rhetoric...	3
Survey of Literature	4	Discussions on Modern Chinese	6
Chinese Geography	6	Lit. and Practice Writing...	2
Higher Criticism	2	History of Poetry	3
Ancient Phonetics	3	History of Novel	3
Study on Chinese Grammar	3	History of Drama	3
Chinese Literary Criticism	3	Practical Writing	3
Translations of Buddhist Lit. ...	3	History of Western Literature	6
Selections of Novel and Drama	3	Foreign Language	6

Note: The Chinese major can take electives in the Department of Western Languages and Literature.

B. Lingnan Electives approved by the Ministry

Course title	Credits	Course title	Credits
Bibliography	3	Chinese Economic History ...	6
War-time Literature	3	Contemporary Economic	
Japanese	6	Theories	3
English Literature by Periods	6	Cooperatives	3
Writings of Famous English		Principles of Education	3-6
Authors	6	Educational Psychology ...	3-6
History of Greece and Rome...	4	General Methods of Teaching	3
A period of Chinese History ...	4	History of Chinese Education	3
Western Historical Methods...	4	Secondary Education	3
Western Politics and Diplomacy	6	Methods of Teaching Chinese	3-6
Chinese Government	6	History of Western Social	
Chinese Social History	6	Thought	4
History of Chinese Social		Ethics	3
Thought	3	Philosophy of Religion	3
Contemporary Theories and		Chinese Culture and Christi-	
Methods in Sociology	6	anity	3

Curriculum Program for the Major in English

Freshman

		<i>Sem. I</i>	<i>Sem. II</i>
Gov. 2ab	Political Principles of Dr. Sun...	2	2
Chi. 1ab	Freshman Chinese.....	3	3
Eng. 1ab	Freshman English.....	4	4
His. 9ab 10ab or 11ab	Outline of Chinese History.....	3	3
Math. 1ab	General Mathematics.....	3	3
or Phys. 4ab	General Physics	4	4
or Chem. 1ab	General Chemistry	5	5
or Biol. 1ab	General Biology	3	3
or Geol. 1ab	General Geology	3	3
or Geog. 1ab	General Geography.....	3	3
Eng. 5ab	Introduction to Poetry.....	3	3
Eng. 10ab	Phonetics	2	2
P. E. 1ab	Physical Education.....	0	0

Total 20-21-22 20-21-22

Sophomore

		<i>Sem. I</i>	<i>Sem. II</i>
Phil. 2	Ethics	3	-
Phil. 3	Logic	-	3
His. 12ab	Western History	3	3
Eng. 21ab	Sophomore English	3	3
Eng. 49ab	History of English Literature	3	3
Gov. 10ab	Principles of Government	} choose one 3	3
Econ. 10ab	Principles of Economics		
Soc. 10ab	Principles of Sociology		
Chi. 30ab	History of Chinese Literature	4	4
P. E. 2ab	Physical Education	0	0

Total 19 19

Junior

		<i>Sem. I</i>	<i>Sem. II</i>
Eng. 51ab	Junior Composition	1	1
Eng. 68ab	The English Novel	3	3
Eng. 71ab	Development of English Drama	3	3
Eng. 83ab	European Literature, Early	3	3
Phil. 1	Introduction to Philosophy	3	-
Elective	.....	3	6
P. E. 3ab	Physical Education	0	0

Total 16 16

Senior

		<i>Sem. I</i>	<i>Sem. II</i>
Eng. 52ab	Senior Composition	1	1
Eng. 56ab	Literary Criticism	2	2
Eng. 80ab	Translation	2	2
Eng. 87ab	European Literature, Modern	3	3
Eng. 59, 60, 69 or 85ab	A Period of English Literature	3	3
Eng. 99ab	Thesis	2	2
Elective	.....	3	3
P. E. 4ab	Physical Education	0	0

Total 16 16

- Notes:*
1. Total Number of credits required for graduation: 142
 2. English 1ab, four credits each semester, meets five hours each week.
 3. English 51ab and 52ab, each one credit each semester, meet two hours each week.

Elective Courses for the Major in English

A. Ministry Electives

<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
A second foreign language.. 12-18		Contemporary English and American Literature	3-6
One or two courses in another department..... 6-9		Intensive study of an author	3-6
An additional course in a period of English Literature 6		Comparative Literature... ..	3-6
American, French, German, Italian, or Russian, Literature	3-6	Public Speaking and Debate 2	
		Practical English.....	3
		The Teaching of English... ..	3

- Notes*
1. A second foreign language must be studied for at least two years and may be studied for three. Sophomores, however, will be permitted to enroll for a second foreign language only if their grade ratio is high enough to satisfy their adviser that an additional load of three hours a week will not have an adverse affect upon their required studies.
 2. No elective courses other than a second foreign language (see Note 1 above) are permitted in the sophomore year.
 3. A minimum of eighteen elective credits is required for graduation.
 4. One course from the group listed in the Senior Program, 59, 60, 63, and 85ab will be offered each year as the required course in a period of English Literature. When a second course from this group is offered the same year it may be taken for elective credit.
 5. The author chosen for intensive study will usually be Shakespeare.

B. Lingnan Electives Approved by the Ministry

Course	Credits	Course	Credits
English History.....	3-6	History of Western Education	3
History of Western Social Thought	4	Secondary Education	3
History of Chinese Philosophy	6	History of Chinese Philosophy	6
Modern Social Movements ...	3-6	History of Western Philosophy	6
Comparative Linguistics.....	6	Philosophy of Religion.....	3
Principles of Education.....	3-6	Metaphysics	3
Educational Psychology	3-6	Chinese Culture and Christianity	3
General Teaching Methods	3		

Curriculum Program for the Major in History

Freshman

	Sem. I	Sem. II
Gov. 2ab		
Chi. 1ab		
Eng. 1ab		
§ His. 9ab, 10ab or 11ab		
Math. 1ab		
or Phy. 4ab		
or Chem. 1ab		
or Biol. 1ab		
or Geol. 1ab		
Phil. 3		
Geog. 2		
Econ. 10ab		
Gov. 10ab		
Soc. 10ab		
P.E. 1ab		
Political Principles of Dr. Sun	2	2
Freshman Chinese	3	3
Freshman English	4	4
Outline of Chinese History		
History of Chinese Civilization...	3	3
General Mathematics	3	3
General Physics.....	4	4
General Chemistry	5	5
General Biology.....	3	3
General Geology.....	3	3
Logic	3	-
History of Chinese Geography...	-	3
Principles of Economics	} Choose one	3
Principles of Government		
Principles of Sociology		0
Physical Education	0	0
Total 20-21-22 20-21-22		

Sophomore

	Sem. I	Sem. II
Eng. 21ab		
Chi. 30ab		
Geog. 10ab		
Geog. 12ab		
† His. 8ab, or 12ab		
Phil. 1		
Phil. 2		
His. 20ab		
P.E. 2ab		
Sophomore English	3	3
History of Chinese Literature ...	4	4
Chinese Geography	2	2
World Geography	2	2
Western History	3	3
Introduction to Philosophy	3	-
Ethics	-	3
Modern Chinese History	2	2
Physical Education	0	0
Total 19 19		

Junior

	Sem. I	Sem. II
His. 31ab		
His. 41ab or 44&45		
His. 62ab		
His. 85ab or 86ab		
His. 74ab or 78ab or 79ab		
His. 90ab		
Electives		
P.E. 3ab		
Modern Western History	3	3
An Earlier Period of Western History	2	2
History of Asiatic Countries	3	3
A Period of Chinese History	2	2
History of a Western Country ...	3	3
Western History Method	2	2
.....	3	3
Physical Education	0	0
Total 18 18		

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Senior

		Sem. I	Sem. II
His.	87ab		
	or 88ab	Another Period of Chinese History ...	2 2
His.	41ab		
	or 44&45	Another Period of Western History ...	2 2
His.	21ab	History of China's Foreign Relations	} Choose one 3 3
His.	26ab	Chinese Economic & Social History	
His.	50ab	History of Education	
His.	54ab	Western Economic History	
Gov.	72ab	History of Chinese Political Thought	
His.	91	Chinese History Method	} * 3 3
His.	92	History of Chinese Historiography	
His.	93	Outline of the Study of History	
His.	99ab	Thesis	2 2
Electives		.....	2 0
P.E.	4ab	Physical Education.....	0 0
		Total	14 12

§ In which course a student will be enrolled will be determined by his pre-collegiate attainments (entrance examination) His. 11ab is taught in English.

† His. 8 is for entering students deficient in Western History (Anc. & Mod.)

* One of these three. For the other semester an elective may be taken

- Notes:
- Total Number of credits required for graduation: 142
 - A History major must take at least two of the following periods of Chinese History: (a) Shang and Chou (b) Ch'in and Han (c) Wei, Tsin, Northern and Southern Kingdoms (d) Sui, Tang and the Five Periods (e) Sung, Liao, Chin and Yuan, or Yuan and Ming (f) Ming and Tsing (up to Tao Kwang); four credits for each course.
 - A History major must take at least two of the following periods of Western History: (a) Ancient Western History (or study separately Greek History and Roman History) (b) Mediaeval Western History (c) Renaissance to the French Revolution (or study separately Renaissance, Seventeenth Century, Eighteenth Century, French Revolution). Nineteenth Century is included in "Modern Western History". If events after the Great War are not touched, a separate course can be offered. Four credits for each course.
 - A History major must take at least one of the following special aspects of history: Chinese Economic History, Chinese Social History, Chinese Political History, History of Chinese Political Thought, History of Chinese Philosophy, History of Chinese Education, History

of Chinese Literature, History of Chinese Art, History of Chinese Finance, History of Chinese Foreign Relations (can take up separate foreign countries one at a time), History of Chinese Emigration, History of Chinese and Foreign Communications, Western Economic History (or by separate countries), History of Western Art, History of Western Political Thought, History of European Colonization, etc. Four credits for each course. The above courses can be classified as History courses even when they are offered in other departments.

5. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Biol. 1ab	2	3	Eng. 1ab	3	2
Chem. 1ab	3	3	Phy. 4ab	3	3

Elective Courses for the Major in History

A. Ministry Electives

Course title	Credits	Course title	Credits
Bibliography of Chinese History	3	Archaeology	3-6
Biography	3-4	World Geography	4-6
Masterpieces of Historical Writings	3-4	Map-making	3-4
Teaching of History	3-4	Anthropology	3
Prehistory	3	Social Psychology	3-4

B. Lingnan Electives Approved by the Ministry

Course title	Credits	Course title	Credits
History of Economic Thought	6	History of Ancient Western Philosophy	3
History of Western Education	3	History of Modern Western Philosophy	3
History of Western Literature (or by Countries)	3	History of Religion	3
Japanese Government and Diplomacy	6	History of Western Social Thought	4
Elements of Law	6	Principles of Education	3-6
Sino-British Relations	3	Educational Psychology	3-6
Problems of the Pacific	3	General Methods of Teaching	3
Political Geography	3	History of Western Education	3
English Constitutional History	6	Educational Administration	3
Labor Problems and Labor Legislation	3	Secondary Education	3
Socialism	3	History of Chinese Education	3
Railroad Management	3	Rural Education	3
Public Utilities	3	Comparative Education	3
Planned Economy	3	Overseas Chinese Education	3
Criminology and Penology	3-6	Methods of Teaching History	3-6
Population Problems	3	A Second Foreign Language (two years)	12
Problems of Overseas Chinese	3	Japanese	6

Curriculum Program for the Major in Government

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun.....	2	2
Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English	4	4
§ His.	9rb,10ab			
	or 11ab	Outline of Chinese History.....	3	3
Math.	1ab	General Mathematics.....	3	3
or Phy.	4ab	General Physics.....	4	4
or Chem.	1ab	General Chemistry.....	5	5
or Biol.	1ab	General Biology	3	3
or Geol.	1ab	General Geology	3	3
or Geog.	1ab	General Geography	3	3
Gov.	10ab	Principles of Government	} choose one	3
Econ.	10ab	Principles of Economics		
Soc.	10ab	Principles of Sociology		
P.E.	1ab	Physical Education	0	0

Total 21-22-23 21-22-23

Sophomore

			Sem. I	Sem. II
Chi.	20ab	Practical Chinese	2	2
Eng.	21ab	Sophomore English.....	3	3
His.	12ab	Western History	3	3
Gov.	5ab	Constitutional Law	2	2
Gov.	31ab	Comparative Government	3	3
Phil.	2	Ethics	3	-
Phil.	3	Logic	-	3
Gov.	70ab	Civil Law.....	0	0
P. E.	2ab	Physical Education	3	3

Total 19 19

Junior

			Sem. I	Sem. II
Phil.	1	Introduction to Philosophy	3	-
His.	21ab	History of China's Foreign Relations	3	3
Gov.	52ab	Chinese Government.....	2	2
Gov.	74ab	Modern Western Politics.....	3	3
Gov.	63ab	International Law.....	3	3
Gov.	73ab	History of Western Political Thought	3	3
Electives		.....	-	3
P.E.	3ab	.....	0	0

Total 17 17

Senior

			Sem. I	Sem. II
His.	74ab	English Constitutional History.....	3	3
Gov.	55ab	Public Administration	3	3
Gov.	63ab	Administrative Law	3	3
Gov.	72ab	History of Chinese Political Thought	3	3
Gov.	99ab	Thesis	2	2
P.E.	4ab	Physical Education.....	0	0

Total 14 14

§ In which course a student will be enrolled will be determined by his pre-collegiate attainments (entrance examination) His. 11ab is taught in English.

- Notes: 1. Total Number of credits required for graduation: 142.
2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Eng. 1ab	3	2	Chem. 1ab	3	3
Biol. 1ab	2	3	Phy. 4ab	3	3

Elective Courses for the Major in Government

A. Ministry Electives

Course title	Credits	Course title	Credits
Municipal Government	3-6	Philosophy of Confucius,	
§ Chinese Local Government ...	3-6	Mencius and Hsun Tsz...	3-6
† Contemporary World Politics	3-6	Sun Yat-sen's Theories	3-6
International Private Law...	4	Diplomatic Documents.....	4
Marine Trade Law	3	Documents	2
Economic Geography.....	6	Modern Chinese Political	
Frontier Problems	4	Problems.....	4
Public Finance.....	6	Social Psychology.....	3-6
A Second Foreign Language	12	Citizenship Practice.....	2-3

§ With emphasis on local self-government.

† With emphasis on current events.

B. Lingnan Electives Approved by the Ministry

Same as List B under "Elective Course for the Major in History."

Curriculum Program for the Major in Sociology

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun	2	2
Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English.....	4	4
His.	10ab	Outline of Chinese History	3	3
Soc.	10ab	Principles of Sociology	3	3
Gov.	10ab	Principles of Government } choose one	3	3
Econ.	10ab	Principles of Economics } choose one	3	3
Math.	1ab	General Mathematics.....	3	3
or Biol.	1ab	General Biology	3	3
or Chem.	1ab	General Chemistry.....	5	5
or Phy.	4ab	General Physics	4	4
P.E.	1ab	Physical Education.....	0	0
Total			21-22-23	21-22-23

Sophomore

			Sem. I	Sem. II
Eng.	21ab	Sophomore English	3	3
Chi.	20ab	Practical Chinese.....	2	2
His.	12ab	Western History	3	3
Phil.	2	Ethics	3	-
Phil.	3	Logic	-	3
Soc.	25ab	Social Statistics	2 or 3	2 or 3
Phil.	1	Introduction to Philosophy	3	-
Soc.	44	Social Psychology } choose one ...	-	3
Soc.	61	Ethnology }	-	3
P.E.	2ab	Physical Education	0	0
Total			16 or 17	16 or 17

Junior

			Sem. I	Sem. II
Soc.	91 & 92	Social System	3	3
Soc.	85	Social Survey	3	-
Soc.	68	Rural Sociology } choose one	-	3
Soc.	69	Urban Sociology }	-	3
Soc.	60ab	Social Work	2	2
Soc.	75ab	Social Administration.....	3	3
Soc.	35	Chinese Social Problem }	-	3
Soc.	31	His. of Chi. Soc. Sys. } choose one	2 or 3	2 or 3
Soc.	87	Social Policy }	2 or 3	2 or 3
Soc.	81	Modern Social Theories }	2 or 3	2 or 3
Electives		.....	5	5
P.E.	3ab	Physical Education	0	0
Total			18 or 19	18 or 19

Senior

			Sem. I	Sem. II
Soc.	71ab	History of Social Thought	3	3
Soc.	35	Chinese Social Problem	3	3
Soc.	31	His. of Chi. Soc. Sys. } choose one	2 or 3	2 or 3
Soc.	87	Social Policy } not yet taken	2 or 3	2 or 3
Soc.	81	Modern Social Theories }	2 or 3	2 or 3
Soc.	99ab	Thesis	2	2
Electives		.....	9	9
P.E.	4ab	Physical Education.....	0	0
Total			16 or 17	16 or 17

Notes: 1. Total number of credits required for graduation: 142
 2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Eng. 1ab	3	2	Chem. 1ab	3	3
Biol. 1ab	2	3	Phys. 4ab	3	3

Elective Courses for the Major in Sociology

A. Ministry Electives

Course title	Credits	Course title	Credits
Population Problems	3	Human Geography	3-6
Social Economic History... 4-6		Modern Social Movements ... 3-6	
Child Welfare..... 3-6		Social Change..... 3	
Social Legislation..... 3		Social Policy	3
Community Studies..... 3-4		Social Pathology or Social Reconstruction	3-4
Case Work and Group Work 3-4		Rural Sociology..... 3-6	
Field Work..... 4		Land Problems	3-6
Rural Economics	6	Chinese Local Government..... 3-6	
Cooperatives	3-6	Public Health..... 3	
Rural Education..... 3		Social Service Administration 3	
Urban Sociology..... 3		Penology	3
Criminology..... 3		Labor Problems..... 3-6	
Psychiatric Social Work..... 3		Ethnology..... 3-6	
Bus. & Indus. Management... 3		Comparative Linguistics..... 6	
Physical Anthropology	3-6	Frontier Administration..... 3	
Public Administration..... 6		Educational Administration ... 3-6	
Principles of Education..... 3-6		Advanced Statistics..... 4-6	
Education in Frontier Regions 3		A Second Foreign Language... 12-18	
Public Documents..... 2			
Civil Law..... 6			

B. Lingnan Electives

<i>Course title</i>	<i>credits</i>	<i>Course title</i>	<i>credits</i>
Western Economic History ...	3	Comparative Education.....	3
Economic Problems of China	3	History of Chinese Philosophy	
History of Chinese or Western		History of Western Philosophy	6
Economic Thought	3-6	Ethics	3
Overseas Chinese Education	3	Philosophy of Religion.....	3
Educational Psychology... ..	3-6	Metaphysics	3
General Methods of Teaching	3	Chinese Culture and Chris-	
History of Western Education	3	tianity.....	3
Social Anthropology	3	Family.....	3
Child Development.....	6	Nursery School	3
Juvenile Delinquency.....	3	Nutrition	3
Child Care.....	3	Institutional Care	3
Parent Education	3	Mental Testing.....	2
Mental Hygiene	3	Child Health.....	3
Vocational Guidance	3	Child Guidance.....	2
Practice Work	4		

**Curriculum Program for the Major in Child Welfare
of the Department of Sociology**

Freshman

			<i>Sem. I</i>	<i>Sem. II</i>
Gov.	2ab	Political Principles of Dr. Sun	2	2
Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English	4	4
His.	10ab	Outline of Chinese History	3	3
Math.	1ab	General Mathematics	3	3
or Phys.	4ab	General Physics.....	4	4
or Chem.	1ab	General Chemistry	5	3
or Biol.	1ab	General Biology	5	3
Soc.	10ab	Principles of Sociology	3	3
Gov.	10ab	Principles of Government } choose one	3	3
Econ.	10ab	Principles of Economics }		
P.E.	1ab	Physical Education	0	0
Total			21-22-23	21-22-23

Sophomore

			<i>Sem. I</i>	<i>Sem. II</i>
Chi.	20ab	Practical Chinese	2	2
Eng.	21ab	Sophomore English.....	3	3
His.	12ab	Western History	3	3
Phil.	2	Ethics	3	-
Phil.	3	Logic	-	3
Psy.	21	General Psychology	3	-
Soc.	25	Social Statistics	2 or 3	2 or 3
Child.	32	Child Development	3	-
Psy.	50	Child Psychology	-	3
Phil.	1	Introduction to Philosophy.....	-	3
P.E.	2ab	Physical Education	0	0
Total			19 or 20	19 or 20

Junior

			<i>Sem. I</i>	<i>Sem. II</i>
Soc.	35	Chinese Soc. Problems.	2	2
Child	76	Child Welfare Problems	3	-
Child	56	Nursery School.....	3	-
Soc.	60ab	Social Work.....	0	2
Child	69	Nutrition	0	3
Child	78	Mental Hygiene	-	3
Electives		.....	6	6
P.E.	3ab	Physical Education.....	0	0
Total			16	16

Senior

			Sem. I	Sem. II
Soc.	75ab	Social Administration	3	3
Child	80	Child Health	3	-
Soc.	4	Family Relationship	-	3
Child	90ab	Practical Work	2	2
Child	99ab	Thesis	2	2
Electives		.....	5	5
P. E.	4ab	Physical Education	0	0
Total			15	15

- Notes: 1. Total number of credits required for graduation: 142
 2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Eng. 1ab	3	2	Chem. 1ab	3	3
Biol. 1ab	2	3	Phys. 4ab	3	3

Elective Courses for the Major in Child Welfare

A. Ministry Electives

Same as List B under "Elective Courses for Sociology".

B. Lingnan Electives

Course title	Credits	Course title	Credits
Institutional Management ...	3	Social Legislation	3
Vocational Guidance	3	Social Survey	3
Juvenile Delinquency.....	3	Rural Sociology	3
Psychiatric Social Work	3	History of Chinese Soc. Systems	3
Child Care	2	History of Social Thought.....	4
Child Guidance	2	Principles of Education.....	6
Parent Education	3	Methods of Teaching	3
Public Health	3	Mental Testing	3

Curriculum Program for the Major in Economics

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun	2	2
Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English	4	4
His.	10ab	Outline of Chinese History	3	3
Econ.	10ab	Principles of Economics	3	3
Gov.	10ab	Principles of Government } choose one	3	3
Soc.	10ab	Principles of Sociology } choose one	3	3
Math.	1ab	General Mathematics	3	3
or Biol.	1ab	General Biology	3	3
or Chem.	1ab	General Chemistry	5	5
or Phys.	4ab	General Physics	4	4
P. E.	1ab	Physical Education	0	0

Total 21-22-23 21-22-23

Sophomore

			Sem. I	Sem. II
Eng.	21ab	Sophomore English	3	3
His.	12ab	Western History	3	3
Phil.	2	Ethics	3	-
Phil.	3	Logic	-	3
B. A.	59ab	Money and Banking	3	3
B. A.	5ab	Accounting	3	3
B. A.	21	Business	3	-
B. A.	54	Statistics	-	3
P. E.	2ab	Physical Education	0	0

Total 18 18

Junior

			Sem. I	Sem. II
His.	31ab	Western Economic History.....	3	3
Chi.	20ab	Practical Chinese.....	2	2
Phil.	1	Introduction to Philosophy.....	3	-
Econ.	52ab	History of Econ. Thought.....	3	3
Econ.	76ab	Econ. History of China.....	3	3
B. A.	40ab	Public Finance	4	4
B. A.	58	Transportation	-	3
P. E.	3ab	Physical Education.....	0	0

Total 18 18

Senior

			Sem. I	Sem. II
B. A.	56,79	Foreign Trade and Exchange	3	3
Econ.	89ab	Econ. Policy	3	3
Econ.	50	Labor Problems.....	3	-
Econ.	90	Contemporary Econ. Theories.....	-	3
Econ.	21	Rural Economics	3	-
Econ.	65	Co-operative	-	3
Econ.	99ab	Thesis	2	2
P. E.	4ab	Physical Education.....	0	0
Total			14	14

- Notes: 1. Total number of credits required for graduation: 142
 2. In course with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course	Number	Lecture	Laboratory	Course	Number	Lecture	Laboratory
Eng.	1ab	3	2	Chem.	1ab		3
Biol.	1ab	2	3	Phys.	4ab	3	3

Elective Courses for the Major in Economics

A. Ministry Elective

Course title	Credits	Course title	Credits
Advanced Mathematics	6	Auditing	3
Advanced Accounting	6	Advanced Statistics.....	6
Agricultural Economics	6	Practical Statistics	4
Bus. & Indus. Management ...	3	Local Finance.....	3
Labor Problems.....	3-6	Cooperatives	3-6
Business Law	4	International Economic Problems	3-6
Economic Cycles.....	3-6	Chinese Reconstructions Problems	3
Land Problems	3-6	(including Sun Yat-sen's Program of Reconstruction)	
Public Documents.....	2	Cost Accounting.....	3
Advanced Economics	6	A Second Foreign Language	12
History of Economic Thought	6		
Government Accounting	3		

B. Lingnan Elective Approved by the Ministry

Course Number	Lecture	Laboratory	
Socialism	3	Railroad Management.....	3
Monopoly and Trust.....	3	Commercial Banking Policy	3
Planned Economy	3	Central Bank Policy.....	3
Insurance.....	3	Air and Highway Transportation	3
Banking System.....	3	Public Utilities	3

Curriculum Program for the Major in Business Administration

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun	2	2
Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English	4	4
His.	10ab	Outline of Chinese History... ..	3	3
Econ.	10ab	Principles of Economics.....	3	3
His.	12ab	Western History	3	3
Math.	1ab	General Mathematics.....	3	3
or Phys.	4ab	General Physics	4	4
or Chem.	1ab	General Chemistry	5	5
or Biol.	1ab	General Biology	3	3
P. E.	1ab	Physical Education.....	0	0

Total 21-22-23 21-22-23

Sophomore

			Sem. I	Sem. II
Chi.	20ab	Practical Chinese.....	2	2
Eng.	21ab	Sophomore English.....	3	3
B. A.	5ab	Accounting	3	3
B. A.	21	Business Mathematics.....	3	-
B. A.	54	Statistics	-	3
B. A.	59ab	Money and Banking.....	3	3
His.	31ab	Western Economic History.....	3	3
P. E.	2ab	Physical Education.....	0	0

Total 17 17

Junior

			Sem. I	Sem. II
Gov.	45ab	Elements of Law	3	3
B. A.	26ab	Business Law.....	3	3
B. A.	15ab	Advanced Accounting.....	3	3
B. A.	40ab	Public Finance	4	4
B. A.	56,79	Foreign Trade and Exchange	3	3
P. E.	3ab	Physical Education.....	0	0

Total 16 16

Senior

			Sem. I	Sem. II
B. A.	57	Marketing	3	-
B. A.	58	Transportation	-	3
B. A.	62ab	Business Organization and Ind. Mgt. ...	3	3
B. A.	63	Commercial Product.....	2	-
Econ.	89ab	Econ. Policy	3	3
B. A.	90ab	Business Practice.....	1	1
B. A.	99ab	Thesis	2	2
Electives		.....	3	5
P. E.	4ab	Physical Education	0	0
Total			17	17

Notes: 1. Total number of credits required for graduation: 142
 2. In course with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Eng. 1ab	3	2	Chem. 1ab	3	3
Biol. 1ab	2	3	Phys. 4ab	3	3

Elective Course for the Major in Business Administration

A. Ministry Electives

Course title	Credits	Course title	Credits
Sociology	3	Bank Accounting	2-4
Business Psychology	3	Organized Exchanges	2-3
Cooperatives	3	Business Forecasts	3
Business English	3-4	Investments.....	3
Cost Accounting	6	History of Economic Thought	3
Auditing	4-6	Advertising	2-3
Salesmanship	3	Business Policies	2
Chinese and Foreign Financial Markets	3	War-time Economics	2
Trust Business.....	2-3	Corporation Finance	3
		Economic Statistics	4-6

B. Lingnan Electives Approved by the Ministry

Same as List B under "Elective Course for the Major in Economics."

Curriculum Program for the Major in Education

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun.....	2	2
Chi.	1ab	Freshman Chinese.....	3	3
Eng.	1ab	Freshman English.....	4	4
His.	10ab	Outline of Chinese History	3	3
Math.	1ab	General Mathematics	3	3
Biol.	1ab	General Biology	3	3
Chem.	1ab	General Chemistry	5	5
Phys.	4ab	General Physics	4	4
Soc.	10ab	Principles of Sociology		
Gov.	10ab	Principles of Government		
Econ.	10ab	Principles of Economics		
Ed.	10ab	Principles of Education	3	3
P. E.	1ab	Physical Education	0	0

Total 21-22-23 21-22-23

Sophomore

			Sem. I	Sem. II
Chi.	20ab	Practical Chinese	2	2
Eng.	21ab	Sophomore English	3	3
His.	13ab	Western History	3	3
Phil.	1	Introduction to Philosophy	-	3
Phil.	2	Ethics	3	-
Phil.	3	Logic	-	3
Phy.	21	General Psychology	3	-
Ed.	70	Education Statistics	4	-
Ed.	63	Education Administration.....	-	4
Music		.....	0	0
P. E.	2ab	Physical Education	0	0

Total 18 18

Junior

			Sem. I	Sem. II
Ed.	55ab	History of Education (Chi. & Wes.).....	3	3
Ed.	59ab	Education Psychology.....	3	3
Ed.	66ab	Secondary Education	3	3
Ed.	68	Elementary and Mass Education.....	3	-
Ed.	64	Students' Guidance	-	3
Ed.	50	Technique of Teaching	3	-
Psy.	50	Genetic or Child Psychology.....	-	3
Electives		3	3
P. E.	3ab	Physical Education	0	0

Total 18 18

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Senior

			Sem. I	Sem. II
Ed.	60	Mental Testing	3	-
Ed.	71	Comparative Education.....	4	-
Ed.	83	Philosophy of Education	-	4
Ed.	95	Teaching of Elem. School Subjects.....	2	2
Ed.	91	Practice Teaching	3	3
Ed.	99ab	Thesis	2	2
Electives		.....	3	6
P. E.	4ab	Physical Education	0	0
Total			17	17

- Notes: 1. Total number of credits required for graduation: 148
 2. Electives of this department will be selected from courses offered in other departments. It is advisable for students to select electives from one particular department.
 3. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Eng. 1ab	3	2	Chem. 1ab	3	3
Biol. 1ab	2	3	Phys. 4ab	3	3

Curriculum Program for the Major in Biology

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun	2	2
Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English	4	4
**Math.	6ab	Calculus	4	4
Biol.	2 & 3	Gen. Zoo. and Gen. Bot.	4	4
Chem.	1ab	Gen. Inorg. Chem.	4	4
P.E.	1ab	Phy. Ed.	0	0
Total			21	21

Sophomore

			Sem. I	Sem. II
His.	10ab	Chi. His.	3	3
Econ.	10ab	Prin. of Econ.		
Soc.	10ab	Intro. to Soc. } Choose one	3	3
Gov.	10ab	Prin. of Gov.		
†Phy.	4ab	Gen. Phy.	4	4
Chem.	61a	Organic Chem.	6	-
Biol.	25ab	Comp. Anat. of Vert. Animals	3	3
Biol.	31ab	Plant Morphology	-	6
Biol.	2ab	Phy. Ed.	0	0
Total			19	19

Junior

			Sem. I	Sem. II
Biol.	76	Biol. Technique	-	2
Biol.	23	Histology.....	-	4
Biol.	24	Embryology	4	-
Biol.	60	Systematic Botany	-	4
Biol.	32	Plant Physiology	4	-
Biol.	21	Invertebrate Zoology	4	-
Electives		.....	4	4
P.E.	3ab	Phy. Ed.	0	0
Total			16	14

- * Lingnan electives
 ** May be Substituted by Math 1ab, 3 credits each semester
 † May be substituted by phy. 5ab, 5 credits each semester

Senior

		Sem. I	Sem. II
*Biol. 75	Parasitology	4	-
*Biol. 51	Entomology	-	4
Biol. 62	Systematic Vertebrate Zool.	3	-
Biol. 47	Genetics	-	4
Biol. 55	Animal Physiology	4	-
Biol. 99ab	Thesis	2	2
Electives	.....	4	5
P.E. 4ab	Phy. Ed.	0	0

Total 13 11

- Notes: 1. Total number of credits required for graduation: 142.
 2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Biol. 2	2	6	Biol. 47	2	6
Biol. 3	2	6	Biol. 51	2	6
Biol. 21	2	6	Biol. 55	2	6
Biol. 23	2	6	Biol. 60	1	9
Biol. 24	2	6	Biol. 62	1	6
Biol. 25ab			Biol. 75	2	6
Sem. I	2	3	Biol. 76	1	3
Sem. II	1	6	Chem. 1ab	3	3
Biol. 31ab			Chem. 61a	3	6
Sem. I	2	3	Eng. 1ab	3	2
Sem. II	1	6	Phy. 4ab	3	3
Biol. 32	3	3			

Elective Courses for the Major in Biology

A. Ministry Electives

Course title	Credits	Course title	Credits
Geology	4	Entomology	3
Analytic Chemistry	4-6	Ichthyology	3
Bio-Chemistry	4	Ornithology	3
Bio-Physics	3-4	Mammalogy	3
General Physiology	4	Marine Biology	3
Bryology	3	Freshwater Biology	3
Pomology	3	Paleontology	3
Agrostology	3	Anthropology	3
Dendrology	3	Bio-Statistics	3
Mycology	3	Neuro-Anatomy	3-6
Plant Pathology	4	Eugenics	2
Medicinal Plants	3	Experimental Embryology	3
Bacteriology	3	History of Biology	3
Protozoology	3	Evolution	3
Parasitology	3		

B. Lingnan Electives

Course title	Credits	Course title	Credits
Economic Entomology	3	Geology	3
Economic Botany	4	Japanese	6
Plant Anatomy	4	A Second Foreign Language	12

(two years)

Curriculum Program for the Major in Chemistry

Freshman

		Sem. I	Sem. II
Chi. 1ab	Freshman Chinese	3	3
Eng. 1ab	Freshman English	4	4
Math. 6ab	Calculus	4	4
Chem. 1ab	Gen. Chem.	5	5
Phy. 5ab	Gen. Phy.	5	5
P. E. 1ab	Phy. Ed.	0	0
Total		21	21

Sophomore

		Sem. I	Sem. II
His. 10ab	Chi. His.	3	3
Biol. 2 & 3	Gen. Zoology & Gen. Bot.	4	4
Chem. 12ab	Qualitative Analysis	5	5
Chem. 61ab	Organic Chemistry	6	6
P. E. 2ab	Phy. Ed.	0	0
Total		18	18

Students with high standing in entrance examination in Chinese History take His. 10ab; overseas Chinese or exchange students take His. 11ab; all others take His. 9ab (4 lectures a week but 3 credits each semester).

Junior

		Sem. I	Sem. II
Econ. 10ab	Prin. of Econ. } Choice of one	3	3
Gov. 10ab	Prin. of Gov. }		
Soc. 10ab	Intro. to Soc. }		
Math. 57	Differential Equations	-	3
Chem. 51ab	Physical Chemistry	4½	4½
Chem. 66	Organic Analysis	4	-
Chemi 85ab	Industrial Chem.	3	3
*Phy.	Physics Elective	4	4
P. E. 3ab	Phy. Ed.	0	0
Total		18½	17½

Senior

		Sem. I	Sem. II
Chem. 71	Industrial Analysis.....	3	-
Chem. 58	Adv. Inorg. Chem.....	3	-
Chem. 68	Adv. Org. Chem.	-	2
Chem. 99ab	Thesis	2	2
Electives.....		6	7
P. E. 4ab	Phy. Ed.	0	0
Total		14	11

Notes: 1. Total number of credits required for graduation: 140.
2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Biol. 2	2	6	Chem. 58	2	3
Biol. 3	2	6	Chem. 61ab	3	6
Chem. 1ab	3	6	Chem. 66	1	6
Chem. 12ab	2	6	Chem. 71	-	6
Chem. 22	2	6	Chem. 24	3	6
Chem. 51ab	3	3			

Elective Courses for the Major in Chemistry

A. Ministry Electives

Course title	Credits	Course title	Credits
Advanced Inorganic Preparations	3	Magnetism (with laboratory)	9
Industrial Chemistry Laboratory	3	Electronic Structure	3
History of Chemistry	2	Bio-chemistry	3-5
Advanced Organic Preparations	3	Chemical Warfare	4
Thermodynamics	4	Chemical Warfare Laboratory	3
Electric chemistry	4	Principles of Chemical Engineering	9
Colloidal Chemistry.....	4	Modern Physics	8
		A Second Foreign Language	12

B. Lingnan Electives Approved by the Ministry

Course title	Credits	Course title	Credits
Geology	3	Bacteriology	4
Strength of Materials	4	Theoretical Mechanics	6
Materials of Construction... ..	2	Heat and Thermodynamics	7½
Biochemistry	8	Optics	9
Plant Physiology.....	4	Japanese	6
Animal Physiology	4		

Curriculum Program for the Major in Physics

Freshman

		Sem. I	Sem. II
Gov. 2ab	Political Principles of Dr. Sun	2	2
Chi. 1ab	Freshman Chinese.....	3	- 3
Eng. 1ab	Freshman English	4	4
Math. 6ab	Calculus.....	4	4
Phy. 5ab	Gen. Phy.	5	5
Chem. 1ab	Gen. Inorg. Chem.	4	4
P. E. 1ab	Phy. Ed.	0	0
Total		22	22

Sophomore

		Sem. I	Sem. II
His. 10ab	Chi. His.	3	3
Biol. 2 & 3	Gen. Zoology & Gen. Bot.....	4	4
Phy. 12ab	Theoretical Mechanics.....	3	3
Math. 57	Differential Equations	3	-
Phy. 14ab	Electricity & Magnetism	4½	4½
Phy. 16	Fundamentals of Radio	-	4
P. E. 2ab	Phy. Ed.	0	0
Total		17½	18½

Students with high standing in entrance examination in Chinese History take His. 10ab; overseas Chinese or exchange students take His. 11ab; all others take His. 9ab (4 lectures a week but 3 credits each semester).

Junior

		Sem. I	Sem. II
Econ. 10ab	Prin. of Econ.}		
Gov. 10ab	Prin. of Gov. }		
Soc. 10ab	Intro. to Soc. }	3	3
Phy. 18	Choose one.....	4	-
Phy. 54ab	Properties of Matter	3	4½
Phy. 65ab	Heat & Thermodynamics.....	4½	4½
Phy. 61ab	Optics.....	4	4
P. E. 3ab	Election-tubes	-	-
	Phy. Ed.		
Total		18½	16

Senior

			Sem. I	Sem. II
Phy. 55ab	Modern Phy.	.....	3	3
Phy. 91ab	Theoretical Phy.	.....	3	3
Phy. 99ab	Thesis	.....	2	2
Electives		.....	10	8½
P. E. 4ab	Phy. Ed.	.....	0	0
Total			18	18½

- Notes: 1. Total number of credits required for graduation: 142.
 2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laborator
Biol. 2	2	6	Phy. 14ab	3	3
Biol. 3	2	6	Phy. 54b	3	3
Chem. 1ab	3	3	Phy. 55b	3	6
Eng. 1ab	3	2	Phy. 61-2ab	5	3
Phy. 4ab	3	3	Phy. 65ab	3	3

Elective Courses for the Major in Physics

A. Ministry Electives

Course title	Credits	Course title	Credits
Practical Radio	3	Advanced Physics Laboratory	3
Mechanics of Fluids	3	Thermodynamics	3
Terrestrial Physics	3	Kinetic Theory of Gases	4
Applied Optics	3	Astronomy	3
Theories of Magnetism	3	Principles of Mechanical Engineering	1
Metallurgy	1	Celestial Mechanics	3
Mechanical Drawing	2	Theories of Sound	3
Experimental Technique	2	A Second Foreign Language	12

B. Lingnan Electives Approved by the Ministry

Course title	Credits	Course title	Credits
Qualitatives Analysis	5	Heat Engine	3
Quantitative Analysis	6	Geodetic Survey	3
Advanced Inorganic Chemistry	2-3	Geology	3
Organic Chemistry	5-12	Dynamics	3
Physical Chemistry	9	Strength of Materials	4
Method of Least Squares	3	Industrial Chemistry	6
		Japanese	6

Curriculum Program for the Major in Civil Engineering

Freshman

			Sem. I	Sem. II
Gov. 2ab	Political Principles of Dr. Sun	.....	2	2
Chi. 1ab	Freshman Chinese	.....	3	3
Eng. 1ab	Freshman English	.....	4	4
Math. 6ab	Calculus	.....	4	4
Phy. 5ab	Gen. Phy.	.....	5	5
Engg. 2	Engineering Drawing	.....	2	-
Engg. 1	Descriptive Geom.	.....	-	2
Engg. 3ab	Workshop Practice	.....	1	1
P. E. 1ab	Phy. Ed.	.....	0	0
Total			21	21

Sophomore

			Sem. I	Sem. II
Chem. 1ab	Gen. Inorg. Chem.	.....	4	4
Engg. 16	Applied Mechanics	.....	4	-
Engg. 17	Strength of Materials	.....	-	4
Econ. 1	Prin. of Econ.	.....	3	-
Engg. 18	Materials of Construction	.....	2	-
Math. 56	Method of Least Squares	.....	-	3
Engg. 24	Mechanism	.....	-	2
Engg. 12ab	Plane Surveying	.....	5	5
Engg. 19	Material Testing	.....	-	1
P. E. 2ab	Phy. Ed.	.....	0	0
Total			18	20

Junior

			Sem. I	Sem. II
Engg. 13	Geology	.....	-	3
Engg. 51	Heat Engine	.....	3	-
Engg. 50	Geodetic Survey	.....	3	-
Engg. 65ab	Theory of Structure	.....	3	3
Engg. 21	Re-enforced Concrete	.....	3	-
Engg. 22	Re-enforced Concrete Design	.....	-	2
Engg. 57	Structurai Design	.....	-	2
Engg. 52	R. R. Survey	.....	-	3
Engg. 60	Masonry & Foundations	.....	-	3
Engg. 54	Hydraulics	.....	4	-
Engg. 64	Electrical Engineering D. C.	.....	4	-
Engg. 66	Electrical Engineering A. C.	.....	-	4
Engg. 55	Hyd. Lab	.....	1	-
Engg. 65	Hydrology	.....	-	2
P. E. 3ab	Phy. Edu.	.....	0	0
Total			22	22

At the end of the junior year a Summer Surveying Camp of 4-6 weeks is required. No. credit is given.

Senior		Sem. I	Sem. II
Engg. 61	R. R. Engineering.....	3	-
Engg. 58	Highway Engineering.....	-	3
Engg. 62	Contracts and Specifications.....	-	1
Engg. 9ab	Thesis	2	2
Electives	.....	13	11
P. E. 4ab	Phy. Ed.	0	0
Total		18	17

Notes: 1. Total number of credits required for graduation: 150
 2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Chem. 1ab	3	3	Engg. 50	2	3
Engg. 1	-	6	Engg. 52	2	3
Engg. 2	-	6	Engg. 54	4	3
Engg. 3ab	-	3	Engg. 57	-	6
Engg. 12ab	3	6	Engg. 64	3	3
Engg. 19	-	3	Eng. 1ab	3	2
Engg. 22	-	6	Phy. 5ab	3	6

Elective Courses for the Major in Civil Engineering

A. Ministry Electives

Course title	Credits	Remarks
Advanced Structural Design.....	3	
Building Construction.....	3	
Re-enforced Concrete Bridge Design	2	6 hours lab. per week.
Steel Structural Design.....	2	6 hours lab. per week.
Advanced Structure.....	4	
Steel Bridge Design.....	2	6 hours lab. per week.
River Engineering.....	3	
Canal Engineering	3	
City Water Supply	3	
Irrigation Engineering.....	2	
Hydroelectric Engineering	3	
River Engineering Design.....	1	3 hours lab. per week.
Hydraulic Design.....	1	6 hours lab. per week.
Sewage Engineering	3	
Advanced Highway Engineering	3	
Railway Maintenance.....	2	
Highway Design	2	6 hours lab. per week.
Railway Management.....	2	
Railway Design.....	2	6 hours lab. per week.
Steel Bridge Design.....	2	6 hours lab. per week.
Highway Material Testing	1	3 hours lab. per week.
Railway Signals.....	2	
Tunnel Construction.....	2	

B. Lingnan Electives Approved by the Ministry

Course title	Credits	Course title	Credits
Astronomy	3	Business Organization and	
Infinites Series	3	Industrial Management	6
Economics of Transportation...	3	Railroad Transportation	
Differential Equation	3	and Rates	3

Curriculum Program for the Major in Agronomy

Freshman

	Sem. I	Sem. II	
Gov. 2ab	Political Principles of Dr. Sun	2	2
Chi. 1ab	Freshman Chinese.....	3	3
Eng. 1ab	Freshman Eng.	4	4
Chem. 1ab	Gen. Inorg. Chem.	4	4
Biol. 4ab	Agric Botany	3	3
Biol. 6ab	Zoology for Agr. Students	2	2
Agric. 1ab	General Agric.	2	2
Agron. 3ab	Farm Practice	1	1
P. E. 1ab	Phy. Ed.	0	0
Total		21	21

Sophomore

	Sem. I	Sem. II	
Agron. 60a	Soils	-	3
Agron. 21	Meteorology	2	0
Agron. 47	Genetics	3	-
Biol. 32	Plant Physiology	-	4
Engg. 13	Geology	3	-
Econ. 1	Prin. of Econ.	3	-
Econ. 21	Rural Econ.	-	3
Chem. 61c	Organic Chem.	4	-
Chem. 22	Analytical Chem.	-	4
Phy. 3	Agric. Physics	0	3
Electives	.....	3	2
P. E. 2ab	Phy. Ed.	0	0
Total		18	19

Junior

	Sem. I	Sem. II	
Agron. 45	Miscellaneous Crops	3	-
Agron. 46	Rice Culture	-	3
Agron. 60b	Fertility	3	-
Agron. 56	Plant Breeding	-	4
Biol. 51	Entomology.....	3	-
Biol. 52	Econ. Entomology	-	3
Biol. 72	Plant Pathology	4	-
Agron. 61	Farm Implements.....	2	-
Agron. 71	Industrial Crops	-	3
Agron. 57a	Biometry	-	2
Electives	.....	3	3
P. E. 3ab	Phy. Ed.	0	0
Total		18	18

At the end of the junior year 3 weeks Summer Farm Practice is required. No credit is given.

Senior

			Sem. I	Sem. II
Agron.	72	Sugar Cane Culture	3	-
Agron.	55	Farm Management	-	3
Agron.	57b	Field Technique.....	2	-
Agron.	99ab	Thesis	2	2
Electives		.....	6	9
P. E.	4ab	Phy. Ed.	0	0
Total			13	14

Elective Courses for the Major in Agronomy

A. Ministry Electives

Course Number	Course title	Credits
Chem. 61c	Organic Chemistry.....	4
Biol. 74	Mycology.....	4
Phy. 4	General Physics	6
Hort. 20	General Horticulture.....	2-3
Seri. 1	Sericulture.....	3-4
A. H. 20	General Animal Husbandry	2-3
Hort. 60	Forestry	2-3
Agron. 53	Irrigation	3
Biol. 60	Systematic Botany	2
Biol. 78	Plant Microtechnique.....	3
Econ. 51	Rural Cooperatives.....	4
Chem. 21	Biochemistry	4
Biol. 45	Cytology	3-4
Agron. 62	Land Clearing	3
Math. 5	Advanced Mathematics	3-4
	A Second Foreign Language	12

B. Lingnan Electives Approved by the Ministry

Agron.	52	Forage and Pasture Crops	3
Agron.	54	Farm Accounting.....	3
A. H.	43	Poultry	3
A. H.	34	Bee Culture	3
Agron.	53	Irrigation and Drainage	3
Hort.	62	Vegetable Forcing	3
Hort.	82	Horticulture Breeding	3
Hort.	80	Citrus Culture	3

C. Electives Proposed by the Agronomy Department

Soil Chemistry.....	3
Soil Physics	3
Agricultural Surveying	3
Tropical Crops.....	3
Fibrous Crops	3
Special Problems in Agronomy	1-2
Advanced Plant Pathology.....	3
Crop Disease Survey.....	2
Principles of Plant Disease Control	3-4

Curriculum Program for the Major in Horticulture

Freshman

			Sem. I	Sem. II
Gov.	2ab	Political Principles of Dr. Sun.....	2	2
Chi.	2ab	Freshman Chinese.....	3	3
Eng.	1ab	Freshman Eng.	4	4
Chem.	1ab	Gen. Inorg. Chem.....	4	4
Biol.	4ab	Agric. Botany.....	3	3
Biol.	6ab	Zoology for Agr. Students.....	2	2
Agric.	1ab	General Agric.	2	2
Agron.	3ab	Farm Practice	1	1
P. E.	1ab	Phy. Ed.....	0	0
Total			21	21

Sophomore

			Sem. I	Sem. II
Eng'g.	13	Geology.....	3	-
Econ.	1	Prin. of Econ.	3	-
Econ.	21	Rural Econ.....	-	3
Chem.	61c	Organic Chem.	4	-
Chem.	22	Analytical Chem.	-	4
Phy.	3	Agric. Physics	-	3
Agron.	21	Meteorology	2	-
Biol.	32	Plant Physiology	4	-
Agron.	47	(Biol. 47) Genetics	-	3
Electives		.....	3	6
P. E.	2ab	Phy. Ed.	0	0
Total			19	19

Junior

			Sem. I	Sem. II
Agron.	60ab	Soils & Soil Fertility	3	3
Hort.	52ab	Olericulture.....	3	3
Biol.	51 & 52	Entom. & Econ. Entom.....	3	3
Biol.	72	Plant Pathology.....	-	4
Hort.	55ab	Pomology	3	3
Hort.	51ab	Floriculture	2	2
Electives		.....	4	-
P. E.	3ab	Phy. Ed.	0	0
Total			18	18

At the end of the junior year 3 weeks Summer of Farm Practice is required. No credit is given.

Senior

		<i>Sem. I</i>	<i>Sem. II</i>
Agron. 55	Farm Management	-	3
Hort. 66ab	Horticultural Products	2	2
Hort. 54	Landscape Gardening	4	-
Hort. 99ab	Thesis	2	2
Electives	.....	2	9
P. E. 4ab	Phy. Ed.	0	0
Total		10	16

- Notes:*
- Total number of credits required for graduation 142.
 - In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory or field work is indicated below:

<i>Course Number</i>	<i>Lecture</i>	<i>Laboratory</i>	<i>Course Number</i>	<i>Lecture</i>	<i>Laboratory</i>
Agron. 3ab	-	3	Chem. 1ab	3	3
Agron. 21	1	3	Chem. 22	2	6
Agron. 47	2	3	Chem. 61c	3	3
Agron. 55	2	3	Eng. 1ab	3	2
Agron. 60ab	2	3	Hort. 51ab	1	3
Biol. 4ab	3	3	Hort. 52ab	2	3
Biol. 6ab	1	3	Hort. 54	3	3
Biol. 32	2	6	Hort. 55ab	2	3
Biol. 51c	2	3	Hort. 63	3	3
Biol. 52	2	3	Phy. 3	2	3
Biol. 71	2	6			

Elective Courses for the Major in Horticulture

A. Ministry Electives

<i>Course Number</i>	<i>Course title</i>	<i>Credits</i>
Hort. 57	Plant Propagation	3
Chem. 61c	Organic Chemistry	4
Agron. 57ab	Biometry and Field Technique.....	2-3
Eng'g. 2ab	Surveying	6
A. H. 20	General Animal Husbandry	2-3
Hort. 60	Forestry.....	2-3
Chem. 23	Analysis of Agricultural Products	2
Biol. 78	Plant Micro-Technique	3
Biol. 62	Plant Anatomy ..	3-4
Biol. 60	Systematic Botany	2
Hort. 53ab	Ornamental Trees and Shrubs	3-6
Hort. 81	Improvement of Horticultural Crops	3
Hort. 67ab	Making of Horticultural Products	4-6
Econ. 52	Agricultural Product Cooperatives	4
Hort. 58	Systematic Pomology.....	3

Hort. 68	Fruit Packing and Storing	3
Hort. 80(70)	Citrus Culture	2-3
Hort. 59	Small Fruits Cultivation	2-3
Hort. 62	Vegetable Forcing	3
Agro. 55	Farm Management.....	2
Biol. 45	Cytology	3-4
Eng'g. 4	Mechanical Drawing	3

B. Lingnan Electives Approved by the Ministry

Same as List B under "Elective Courses for the Major in Agronomy."

C. Electives Proposed by the Department of Horticulture:

<i>Course title</i>	<i>Credits</i>
1. Improvement of Vegetable Crops.....	2-3
2. Improvement of Flowers and Ornamental Plants	2-3
3. Improvement of Fruit Plants.....	2-3
4. Methods of Horticultural Research	2-3
5. Subtropical and Tropical Fruit Culture.....	2-3
6. Special Problems in Horticulture.....	1-2
7. Advance Plant Pathology	3
8. Crop Disease Survey	4
9. Principles of Plant Disease Control	3-4
10. General Agronomy	3

Curriculum Program for the Major in Animal Husbandry

Freshman

		Sem. I	Sem. II
Gov. 2ab	Political Principles of Dr. Sun	2	2
Chi. 1ab	Freshman Chinese	3	3
Eng. 1ab	Freshman Eng.	4	4
Chem. 1ab	Gen. Inorg. Chem.	4	4
Biol. 4ab	Agric. Botany	3	3
Biol. 6ab	Zoology for Agr. Students	2	2
Agric. 1ab	General Agric.	2	2
Agron. 3ab	Farm Practice	1	1
P. E. 1ab	Phy. Ed.	0	0
Total		21	21

Sophomore

		Sem. I	Sem. II
Econ. 1	Prin. of Econ....	3	-
Econ. 21	Rurnl Econ.....	-	3
Chem. 61c	Organic Chem.	4	-
Chem. 22	Analytical Chem.	-	4
Phy. 3	Physics.....	-	3
Boil. 70	Bacteriology	-	4
Agric. 47 (Biol. 47)	Genetics	-	3
*Biol. 75	Parasitology	4	-
Electives	.....	6	-
P. E. 2ab	Phy. Ed.	0	0
Total		17	17

Junior

		Sem. I	Sem. II
A.H. 37(61)	Anatomy of Farm Animal	4	-
A.H. 31	Live Stock Judging	-	3
A.H. 11(21)	Animal Physiology	-	3
A.H. 32(12)	Feeds & Feeding	3	-
A.H. 51ab	Breeds of Farm Animals	5	5
A.H. 50(35)	Animal Breeding	3	-
A.H. 43	Poultry Production	-	3
A.H. 93	Animal Hygiene	2	-
A.H. 64	Phy. Diagnosis	-	2
A.H. 61ab	Common Diseases.....	2	2
P.H. 3ab	Phy. Ed.	0	0
Total		19	19

At the end of the junior year 3 weeks Summer of Farm Practice is required. No credit is given.

Senior

		Sem. I	Sem. II
A.H. 71	Veterinary Pharmacology.....	4	-
A.H. 72ab	Infectious Diseases	2	2
A.H. 73	Immunology	-	3
A.H. 99ab	Thesis ...	2	2
Electives	.....	7	7
P.E. 4ab	Phy. Ed.	0	0
Total		15	14

- Notes: 1. Total number of credits required for graduation: 142.
2. In courses with laboratory work, the number of hours per week devoted to lecture and to laboratory field work is indicated below:

Course Number	Lecture	Laboratory	Course Number	Lecture	Laboratory
Agron. 3ab	-	3	Biol. 4ab	3	3
A.H. 11	2	3	Biol. 6ab	1	3
A.H. 31	2	3	Biol. 70	2	6
A.H. 32	2	3	Biol. 75	2	6
A.H. 37	2	6	Chem. 1ab	3	3
A.H. 43	2	3	Chem. 22	2	6
A.H. 51ab	4	3	Chem. 61c	3	3
A.H. 64	1	3	Eng. 1ab	3	2
A.H. 71	3	6	Phy. 3	2	3
A.H. 73	2	3			

Elective Courses for the Major in Animal Husbandry

A. Ministry Electives

Course Number	Course title	Credits
A.H. 45(60)	Hog raising	4
Chem. 61c(21)	Organic Chemistry	4
Agr. 57a	Biometry	2-3
Chem. 21	Agricultural biochemistry	3
Agr. 60a	Soil	2-3
	Embryology.....	4
Biol. 23	Histology	4
A.H. 62	General internal diseases	4
A.H. 47	Sheep raising	3
Biol. 75	Parasitology	4
A.H. 79	Clinics	2
A.H. 53	Draft animals	3
A.H. 54	Animal practicum	3
A.H. 76	Surgery.....	2
A.H. 40	Shoeing	1
A.H. 65	Pathology	2
A.H. 34	Bee culture	3

A.H.	43	Chicken raising	3
A.H.		Pharmacology	2
A.H.	15	Dairy product inspection	2
Agro.	52	Forage crop	3
A.H.	48	Dairy production	3
A.H.	75	Internal medicine (Infectious)	3
A.H.	78	Meat inspection	3
A.H.	77	Genital diseases	2
A.H.	46(80)	Animal product manufacturing	3
A.H.	74	Manipulotogy	4
		A Second Foreign Language	12

B. Lingnan Electives Approved by the Ministry

Hort.	52ab	Vegetable culture	6
Hrot.	55ab	Pomology	6
Agr.	53	Irrigation and drainage	3
Agr.	54	Farm accounting	3

C. Lingnan Electives (Pending Ministry Approval)

A.H.	49(86)	Dairy manufacturing	3
A.H.	56(108)	Dairy bacteriology	4
A.H.	59	Market milk	3
A.H.	60	Butter making	4
A.H.	96	Special problem in animal industry	1-2
A.H.	58	Ice cream and ices	3
		General Agronomy	3

Curriculum Program for the College of Medicine

			Semester I		Semester II	
			Hours		Hours	
			per week		per week	
			Lec.	Lab.	Lec.	Lab.
			Credits		Credits	
<i>The First Year</i>						
Gov.	2ab	Political Principles of Sun Yat-sen	2	-	2	2
Chi.	1ab	Freshman Chinese	3	-	3	3
Eng.	1ab	Freshman English	3	2	4	3
Chem.	1ab	Inorganic Chemistry	3	3	4	3
Phy.	4ab	Physics	3	3	4	3
Biol.	5	Zoology	2	6	4	-
Biol.	3	Botany	-	-	2	6
Med.	1ab	Military First Aid	1	-	1	-
P.E.	1ab	Physical Education	-	1	0	1
Total					22	22

The Second Year

Bus.	54	Statistics	3	-	3	-
Chem.	22	Analytic Chemistry	-	-	-	2
Chem.	61c	Organic Chemistry	3	3	4	-
Med.	20	Medical Psychology	2	-	2	-
Med.	21ab	Anatomy	3	9	6	2
Med.	22	Histology	2	6	4	-
Med.	24	Embryology	-	-	2	3
Med.	23	Neuro-anatomy	-	-	2	3
Med.	51	Biochemistry	-	-	4	12
Med.	26ab	Military First Aid	1	-	1	-
P.E.	2ab	Physical Education	-	1	0	1
Total					20	23

The Third Year

Biol.	75	Parasitology	2	4	3	-
Med.	52	Physiology	4	12	8	-
Med.	53ab	Pharmacology	-	-	-	3
Med.	54ab	Bacteriology & Immunology	4	9	7	-
Med.	55ab	Pathology	2	6	4	3
Med.	56	Physical Diagnosis	-	-	-	2
Med.	57	Laboratory Diagnosis	-	-	-	2
Med.	58ab	Military First Aid	1	-	1	-
P. E.	3ab	Physical Education	-	1	0	1
Total					23	19

<i>The Fourth Year</i>			Semester I		Semester II	
			Hours per week	Credits	Hours per week	Credits
			Lec. Lab.		Lec. Lab.	
Med.	71ab	Medicine.....	4	5	4	5
Med.	72ab	Surgery	3	6	3	9
Med.	73	Tropical Medicine	2	3	-	-
Med.	74	Radiology	-	-	1	3
Med.	76ab	Dermatology & Syphilology	1	3	1	3
Med.	77ab	Neurology & Psychiatry...	1	2	1	2
Med.	78	Obstetrics & Gynecology...	-	-	1	2
P. E.	4ab	Physical Education	-	1	-	1
Total				18		20

<i>The Fifth Year</i>						
Med.	101ab	Medicine	1	6	1	6
Med.	102ab	Surgery	-	3	-	3
Med.	103ab	Pediatrics	2	3	2	3
Med.	105	Urology	-	-	2	3
Med.	106	Obstetrics & Gynecology...	3	6	-	-
Med.	107	Orthopedic Surgery	-	-	1	2
Med.	108ab	Public Health	2	6	3	6
Med.	109	Ophthalmology	2	3	-	-
Med.	110	Otolaryngology	-	-	2	3
Med.	111	Medical Jurisprudence.....	1	3	-	-
Med.	112	Medical History & Ethics..	-	-	1	-
P. E.	5ab	Physical Education	-	1	-	1
Total				21		21

The Sixth Year *Interne* *Interne*

NOTES

1. In the Fourth and Fifth Years, students act as clinical clerks and dressers in the wards under tutorship.
2. In the Sixth Year, each student is required to present an essay on some subject in one of the branches of medicine or surgery, and to serve as interne in the hospitals. During the year, the student gives services in Medicine (including pediatrics, neurology, dermatology and syphilology) for four and half months, in surgery (including orthopedic surgery, urology, ophthalmology and otolaryngology) for four and half months, in obstetrics and gynecology for one month, and in public health for one month.

Courses Primarily for Graduate Students of Department of Biology

		<i>Credits</i>
100	Biology Seminar.....	No Credits
101	Advanced Biology.....	3
104	Twinning	2
111	Advanced Systematic Botany	3
115	Advanced Economic Botany.. ..	3
120ab	Advanced Parasitology	3-3
121	Trematodes and Cestodes.....	3
122	Nematodes	3
131ab	Cryptogamic botany	3-4
132	Morphology of Flowering Plants.....	3
138	Structure of Economic Plants.....	3-4
141	External Morphology of Insects.....	3
142	Taxonomy of Insects.....	3
143	Biology of Insects.....	3
144	Insect Control.....	3
151ab	Systematic Vertebrate Zoology.....	3-3
152	Comparative Histology	3
153	Experimental Embryology I.....	4
154	Experimental Embryology II.....	4
155	Physiological zoology.....	3
191	Research	
199	Thesis	

Graduate Courses of Department of Physics

		<i>Credits</i>	<i>Sem.</i>
Phy.	101ab	Theoretical Physics	3-3
Phy.	102	Classical Electromagnetic Theory	3
Phy.	103	Electromagnetic Theory of Light	3
* Phy.	110ab	Thermodynamics and Statistical Mechanics	3-3
Phy.	111	Atomic Structure	3
Phy.	112	Molecular Structure	3
Phy.	113	Molecular Spectra-Polyatomic Molecules ...	3
Phy.	114	Nuclear Physics	3
** Phy.	116	Quantum Mechanics	3
Phy.	117	X-radiation and Crystal Structure	3
Phy.	121	Electron-Tube Control Circuits and their Applications	3
Phy.	122	Introduction to Ultra-high Frequency Communication	3
Phy.	123	Micro-wave Technique	3
Phy.	124	Power Amplifiers and Oscillators	
Phy.	131	Special Experimental Problems	
Phy.	199ab	Thesis	

* Same as Chem. 110ab

** Same as Chem. 116

Graduate Courses of Department of Chemistry

		<i>Credits</i>
110a-b	Chemical Thermodynamics and Statistical Mechanics.....	3
112	Chemical Kinetics.....	3
113	Theory of Solutions.....	3
115a-b	Advanced Physical Chemistry.....	3
116	Quantum Mechanics.....	3
140	Advanced Organic Chemistry.....	3
150	Industrial Resources of South China.....	3
151	Water Analysis.....	3
160	Selected Topics in the Chemistry of Natural Products.....	3

UNION THEOLOGICAL COLLEGE, LINGNAN UNIVERSITY
MAJOR IN RELIGION.

1st. Year.

Chi.	1ab	Freshman Chinese	3	3
Eng.	1ab	Freshman English	4	4
His.	9ab	Chinese History	3	3
Phil.	21	Introduction to Philosophy	3	-
Phii.	1ab	Logic		
		History of Education } Choose one	3	
Biol.	1ab	General Biology		
Chem.	1ab	General Chemistry } Choose one	3	3
Phy.	4ab	General Physics		
Soc.	1ab	Introduction to Sociology	3	3
Rel.	1	The Art of Worship	2	-
Rel.	2	Forms of Christian Service	-	2
Total			21	21

2nd. Year.

Chi.	30ab	History of Chinese Literature	3	3
Chi.	73ab	Chinese Composition Practice.....	1	1
Eng.	21ab	2nd Year English	3	3
		General Psychology		
Soc.	44ab	social Psychology } Choose one... 3	3	3
		Educational Psychology		
His.	8ab	Western History	3	3
Econ.	10ab	Principles of Economics } Choose one... 3	3	3
Soc.	25ab	Social Statistics		
Rel.	21ab	Introduction to the Bible	2	2
Total			18	18

3rd. Year.

Rel.	31ab	History of Israel.....	3	3
Rel.	35ab	The Gospels	3	3
Rel.	51ab	History of Religion.....	2	2
Rel.	52ab	Christian view of Man and His World	2	2
Rel.	24ab	Religious Music	1	1
		Electives	6	6
Total			17	17

4th. Year.

Rel.	62ab	The Prophets of Israel.....	3	3
Rel.	65ab	The Letters of St. Paul.....	3	3
Rel.	75ab	History of the Church	3	3
Rel.	77	Christian Doctrine of God	3	-
Rel.	80	The Christian Social Program	-	3
Rel.	99ab	Thesis	2	2
		Electives	3	3
Total			17	17

5th. Year.

Rel.	101ab	Christian Ethics	3	3
Rel.	111ab	Doctrine of the Person and Work of Christ	3	3
Rel.	121ab	Study of a Vocational Field.....	5	5
		Electives	6	6
Total			17	17

**Elective Courses in Home Economics for Women Students in
Any Major in Any College**

Lingnan Electives Approved by the Ministry

<i>Course Number and Title</i>		<i>Lecture</i>	<i>Laboratory</i>	<i>Credits</i>
H.E. 31	Food Selection and Preparation ...	2	2	3
H.E. 62	Clothing and Textiles I	2	2	3
H.E. 63	Clothing and Textiles II	1	4	3
H.E. 71	Nutrition I	2	2	3
H.E. 75	Nutrition II	2	2	3
H.E. 77	Preschool Education I (Child Care and Training)	2	2	3
H.E. 78	Preschool Education II (Parent Education and Preschool Child Problems)	3	-	3
H.E. 80	House Furnishing and Household Management I (House Furnishing)	2	2	3
H.E. 82	House Furnishing and Household Management II (Household Management)	3	-	3

**Program of Chinese Studies for Overseas Students
in Any Major in Any College**

<i>Course title</i>	<i>Hours per week</i>		<i>Points</i>
	<i>Lecture</i>	<i>Laboratory</i>	
Chin. F First Year Chinese, 1st Sem.	6	2	7
Chin. G First Year Chinese, 2nd Sem.	6	2	7
Chin. K Second Year Chinese, 1st Sem.	6	2	7
Chin. L Second Year Chinese, 2nd Sem.	6	2	7
Chin. M Third Year Chinese, 1st Sem.	4	2	5
Chin. N Third Year Chinese, 2nd Sem.	4	2	5
Chin. P Fourth Year Chinese, 1st Sem.	4	2	5
Chin. Q Fourth Year Chinese, 2nd Sem.	4	2	6

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