

Second Term.—Spanish Drama: Miracle plays, Juan del Encina, Lope de Vega and his theatre, Tirso de Molina and Don Juan's "Leyenda", Calderon and his "Autos", 18th Century; Moratin and his classicism, Don Ramon de la Cruz and his "Sainetes", 20th Century: Benevente.

Text Book—Pattison: "Representative Spanish Authors" (Vol. 1).
Reference Books—To be announced.

5. **History of Spain and of Hispano-America (1492-1898).**—(1962-63). F. from 10.30 a.m. to 11.30 a.m. M. T. Garcia-Lopez

Prerequisite—Spanish 2 and 3.

Discovery, colonization, and independence of Hispano-American colonies.

Text Books—Ballesteros: "Sintesis de la Historia de Espana".
Reference Books—To be announced.

6. **The Golden Age of Spanish Literature.**

For Honours and M.A. students.

First Term.—Spanish Mystics and Ascetics.

Second Term.—Spanish Drama.

Text Books—To be announced.

Russian

Elementary Russian.—M., W. and F. at 10.30 a.m. Irene Coffin

This class is intended for those beginning the study of the Russian language. It may be counted as a credit towards a degree.

Text Book—N. F. Potapova: "Russian Elementary Course" Vol. 1, Lermontov: "Taman".

Russian 1.—Tu., Th. and S. at 10.30 a.m. Irene Coffin

Prerequisite.—Elementary Russian.

Text Books—N. F. Potapova: "Russian Elementary Course" Vol. II. Two short stories by Pushkin

Russian 1 S. (Scientific Russian).—Tu., Th. and Sat. at 10.30 a.m. Irene Coffin

This class is intended for those who wish to read scientific articles as quickly as possible. It is taught in conjunction with Russian 1. No student may register for both Russian 1 and Russian 1S.

Text Books—N. F. Potapova: "Russian Elementary Course" Vol. II. Znamensky: "Elementary Scientific Russian Reader" (Sir Isaac Pitman & Sons, [Canada] Ltd.).

Russian 2.—M., W. and F. at 1.30 p.m.

Prerequisite.—Elementary Russian and Russian 1 or 1S.

Text Books—To be announced.

Higher work in Russian may be arranged by consultation with the instructor.

Sociology: see Economics

Spanish: see Romance Languages

Zoology: see Biology



CALENDAR

OF THE

University of King's College

(Founded A. D. 1789)

HALIFAX, NOVA SCOTIA

1963-64

175th SESSION

Published under the direction of the Board of Governors

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University Almanac 1963-64

1963

- Aug. 20 T.—Last day for receiving applications* for Fall Supplemental Examinations.
- 31 S.—Last day for receiving applications for admission to the Faculty of Arts and Science.
- Sept. 18 W.—Supplemental Arts and Science Examinations†† begin.
- 23 M.—Registration (and payment of Fees) begins in Faculties of Arts and Science, Divinity and Journalism. The only regular registration day for New Students from Halifax and Dartmouth.
- 24 Tu.—Registration begins for other New Students in Faculty of Arts and Science.
- 25 W.—Registration begins for other than New Students in Faculty of Arts and Science.
- 28 S.—12 Noon. Regular Registration† Period for students in Arts and Science, Divinity and Journalism ends. Halifax students will not be registered on this day.
- 29 Su.—University Service with Special Preacher.
- 30 M.—Results of Matriculation and Supplemental Examinations declared.
—8.30 a.m. Classes begin in Arts and Science.
- Oct. 3 Th.—Meeting of Faculty of Arts and Science.
- 8 Tu.—Last day for change of courses in Faculty of Arts and Science.
- 14 M.—Thanksgiving Day. No classes (if declared a statutory holiday).
- Nov. 11 M.—Remembrance Day. (No classes if statutory holiday)
- Dec. 19 Th.—12.30 p.m. Christmas vacation begins.

* Fee must accompany application for examination. If a late application is accepted additional fee of \$2.00 per day (maximum \$5.00) must be paid. The late fee applies between August 20th and August 31st. No application will be considered after August 31st and no refund will be paid after this date.

†Late Registration requires approval of the Dean of Faculty and extra fee of \$5.00 per day.

††For Time Table see Notice Board.

1964

- Jan. 3 F.—8.30 a.m. Classes resumed.
- Mar. 10 Tu.—Munro Day. No classes.
- 27 F.—Good Friday. No classes.
- April 16 Th.—Last day of classes.
- 20 M.—Spring Examinations begin.††
- May 8 F.—11 a.m. Meeting of Faculty of Arts and Science.
- 12 Tu.—10.00 a.m. Meeting of Senate.
- 13 W.—Encaenia Day. King's Convocation — Divinity and Journalism.
- 14 Th.—2.30 p.m. Dalhousie Convocation. Arts and Science Session ends.

††For time table see Notice Board.

Office Hours

The King's College Office hours are: Week days 9.00-5.30, Saturdays 9.00-1.00; except June, July and August, 9.30-4.30. The office is closed on Saturday during June, July and August.



Officers of the University

PATRON

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VISITOR

The Right Reverend the Lord Bishop of Nova Scotia.

CHANCELLOR

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1962-64

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Alumni Association

1962-64

Miss Marion Dauphinee, M.A., D.C.L. Halifax, N. S.
C. Bruce Cochrane, Esq., C.D., B.Comm. Halifax, N. S.
Donald R. Towers, Esq., B.A. Cheshire, Conn., U.S.A.
Norman H. Gosse, Esq., M.D.C.M., F.R.S.(C.)
F.A.C.S., D.Sc., D.C.L. Halifax, N. S.
The Rev. L. F. Hatfield, M.A., L.Th., D.D. Dartmouth, N. S.

1961-63

The Very Rev. E.B.N. Cochran, B.A., L.Th., D.D. Halifax, N. S.
A. W. Cunningham, Esq., M.A., D.Cn.L. Bedford, N. S.
The Hon. W. S. K. Jones, B.A., LL.B., D.C.L. Liverpool, N. S.
Mr. Justice R. A. Ritchie, Q.C., B.A., D.C.L. Ottawa, Ont.
Rear Admiral K. L. Dyer, D.S.C., C.D., R.C.N. Halifax, N. S.

Co-Opted Members

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G. R. K. Lynch, Esq., B.A., LL.B. Halifax, N. S., 1966
G. J. Currie, Esq. Halifax, N. S., 1963.
C. J. Morrow, Esq. Lunenburg, N. S., 1963.
H. F. G. Stevens, Esq., LL.B. Halifax, N. S., 1963.
J. F. R. Jackson, Esq., B.A. Rothesay, N. B., 1964.
R. J. McCleave, Esq., B.A., LL.B. Halifax, N. S., 1964.
Hector Porter, Esq., B.A., LL.B. Halifax, N. S., 1965.

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The Right Reverend the Lord Bishop of Fredericton
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The Vice-President
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The Ven. C. leR. Mooers

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Librarian.....	Miss Rebecca Nash, B.A.
Assistant Librarian.....	Miss Janet Hunt



Academic Staff

KING'S FACULTY OF ARTS AND SCIENCE

1963-64

- F. Hilton Page, M.A. (Tor.), Vice-President, Professor of Philosophy and Professor of English, 1590 Walnut Street.
- Frantisek Uhlir, Ph.D. (Prague), Associate Professor of Sociology, King's College.
- H. S. Granter, B.A. (Dal.), A.M. (Harv.), Assistant Professor of History, 1171 Cartaret Street.
- Ernest Lloyd Heighton, B.Sc., M.A. (Dal.), Assistant Professor of Mathematics, 43 Cambridge Street.
- F. F. Clairmonte, D.Sc.(econ) (Genève), Assistant Professor of Economics, King's College. (on leave).
- R. MacGregor Dawson, B.A. (Tor.), M.A. (Tor.), B.Litt. (Oxon), Assistant Professor of English, 1590 Walnut Street.
- J. P. Atherton, M.A. (Oxon), Assistant Professor of Classics, King's College.
- A. G. Cannon, B.A. (Lond.), A.K.C., F.R.S.A., Lecturer in English, 4 Gardencrest Apts., Summer Street.
- D. Paul Schafer, B.Comm. (Tor.), M.A., (Tor.), Lecturer in Economics, King's College.

DIVINITY FACULTY

- Dean: The Rev. J. B. Hibbitts, M.A. (Dal.), B.S.Litt. (Vind), S.T.B., S.T.M. (Gen. Theol. Sem., N.Y.), D.Phil. (Oxon.), Professor of Biblical Studies, 1625 Preston Street.
- The Rev. H. F. Woodhouse, B.A., H.Dip.Ed., D.D. (Dublin), Professor of Dogmatic Theology, 6454 Coburg Road.
- The Rev. C. W. F. Stone, B.A., B.D. (Vind.), Associate Professor of Liturgics, 1525 Larch Street.
- The Rev. Frantisek Uhlir, Ph.D. (Prague), Associate Professor of Sociology, King's College.
- The Rev. Rodney J. R. Stokoe, B.Sc., B.A., Dip.Th. (Dunelm.), Alexandra Professor of Pastoralia, 5042 South Street.
- Edward Roberts, A.R.C.M., Lecturer in Diction and Voice Production, 6 Elmwood Apts., South Street.
- A. G. Cannon, B.A. (Lond.), A.K.C., F.R.S.A., Lecturer in Church Music.

University of King's College

HISTORICAL SKETCH

King's College, established by Act of Legislature in 1789, was founded at Windsor in 1790, and 1802 a Royal Charter was granted by King George III in which the College is referred to as "the Mother of an University for the education and instruction of youth and students in Arts and Faculties to continue forever and to be called KING'S COLLEGE". It was the first University established in what is now Canada. The first President of the College, Dr. William Cochran, came from King's College, New York, which afterwards changed its name to Columbia; and two other King's Colleges, one at Fredericton and the other at Toronto, were subsequently founded; but King's College, Nova Scotia, is the only one which has survived. Among its Alumni are many famous men who have won honourable distinction in Church and State. The burning of the College residence at Windsor, February 5, 1920, raised afresh the scheme of University Federation for the Maritime Provinces; and a generous offer from the Carnegie Corporation to give a sufficient sum to provide for the Arts course, if the College would move to Halifax and erect buildings there, seemed to the Governors an opportunity which they ought not to let pass. In 1923 a basis of association with Dalhousie University was agreed upon, and the College moved from Windsor to Halifax, and the internal life of the College continued on exactly the same lines as in former years. In 1930 King's established herself permanently in Halifax in commodious new buildings erected on a site deeded to King's by Dalhousie University. King's College provides residences for men and for women students, under supervision of members of the staff, a President's house, administration offices, library, lecture rooms, dining hall, a chapel, and a large recreation hall. The buildings are of stone, of fire resistant construction, and are on the same campus and within a few minutes' walk of the Dalhousie University buildings.

In December, 1961, the first sod was turned in a building programme which has added a new 100-bed residence for girls, a gymnasium and swimming pool, and a new dining hall to seat 300. These buildings were all in occupation during the academic year 1962-63.

In May 1941, the King's College buildings were taken over by the R.C.N. as an Officers' Training Establishment, and during the next four years, until May 1945, nearly 4,000 officers were trained for sea duty with the R. C. N. The students and academic staff of King's carried on during this period through the kindness of Dalhousie University and Pine Hill Divinity Hall.

In 1954, after some years of careful negotiations, the original basis of association with Dalhousie was revised and new articles of association formally signed. These articles restored certain degree-conferring powers to King's, while placing the financial relationship of the two Universities on a more realistic basis. A convention signed in December 1959 modified the 1954 agreement in the light of five years' experience of its operation.

King's retains complete control of her Divinity School as well as of her endowments, administration of residences, etc., but holds in abeyance her degree-conferring powers except in Divinity and other Faculties not forming a part of Dalhousie.

ORGANIZATION OF THE UNIVERSITY

The Board of Governors is the supreme governing body of the University. It consists of the Bishops of the Dioceses of Nova Scotia and Fredericton, the President of the University, the Vice-President and the Treasurer, together with eight members elected by the Alumni Association, six by each of the Synods of Nova Scotia and Fredericton, and not more than eight co-opted members. The Governors have the management of the funds and property of the College, and the power of appointment of the President, professors and officials. The Board appoints an Executive Committee.

University of King's College

(Founded A. D. 1789)

175th SESSION, 1963 - 64

The University of King's College having entered an association with Dalhousie University, the students of Arts and Science in both institutions must satisfy the same entrance requirements.

All classes in Arts and Science are attended jointly by students of King's and Dalhousie and are given by Dalhousie professors or by professors on the King's Foundation, depending on the courses taken. The students of both institutions follow the same curriculum, take the same examinations, and must attain the same academic standard.

The academic facilities in Arts and Science are shared by the students of both institutions, and the students of King's College have the added advantage of residential life in King's College buildings on Studley Campus. At the end of a successful course the student receives the same degree as a Dalhousie graduate but his diploma is countersigned by the President of King's College and bears the words "A student of King's College."

A student of King's College has the advantage of attending classes in a large institution with increased facilities as well as of enjoying the more intimate and friendly relations of a small residential college.

Students intending to enter one of the Dalhousie professional schools may take their pre-professional work in Arts and Science as students of King's College and thus assure themselves a place in the King's residence during this course.

KING'S COLLEGE RESIDENCE

The residential life is the most outstanding feature of King's College, as it brings together to their great benefit students of differing temperaments and training.

The residences have been designed to provide for the comfort and convenience of the students, and to facilitate study. In the men's residence two students occupy a suite of two rooms (bedroom and study), and each student has a bed, bureau and closet, study chairs and tables also being provided. The women's residence, with accommodation for approximately 100 students in single and double rooms, is equipped with features found in most modern residences. Equipped with a sprinkler system, the building has a spacious library, music room, lounges, a games room, laundry facilities, a service elevator and ample storage space. The buildings are designed so that it is not necessary to go outside for any student activities.

Students are expected to reside in the College building, provided space is available, but in special circumstances permission may be granted to reside outside. All students are under the immediate charge of the respective Deans.

Any student wishing to spend a night outside residence is required to sign out, leaving particulars of his destination.

Applications for admission each year greatly exceed available accommodation, so that the allocation of a place in the residence is a privilege carrying certain obligations. It must be understood that the student is to remain for the whole session, or, in the case of withdrawal during the session, he or she must obtain a satisfactory substitute. All residents will be charged with room for the complete session and no refund will be made to the resident on withdrawal unless or until a substitute has assumed obligation to the University for the balance. No student who has been admitted to residence may withdraw therefrom without notice to the Dean of Residence.

Students must provide their own blankets, sheets, pillowslips and towels.

Since college cutlery and crockery may not be taken out of the dining room, students are advised to bring cup, plate, knife and spoon.

All property belonging to students in residence is held by them entirely at their own risk.

The residence will be open for students from the evening of September 22, 1963, until the morning of December 20, 1963, and from the evening before the day on which lectures commence in January, 1964, to the morning after Encaenia

Day, 1964; (in the case of students expecting to receive their degrees this time will be extended to the morning following Dalhousie Convocation). Resident Students in Law and Medicine, and other students by permission of the Registrar may reside in College at other times on payment of rent, and, when the kitchen is open, board.

Hours

The full advantages of life in residence can be enjoyed only when all residents conduct themselves with consideration for others, particularly with regard to noise during hours of study and sleep. Residents are expected to show discretion in the hours of returning to college and retiring to bed, and those who show persistent disregard for the interests of others in this respect will be disciplined.

For one month prior to the beginning of University examinations, quiet hours are in force in the residence throughout the day with the exception of 7.30 - 8.30 a.m., 12.30 - 1.30 p.m., 6 - 7 p.m. and 10.30 - 11 p.m.

Guests

No one who is not a resident student or a member of the staff may be in College after midnight except by permission of the Dean of Residence. Guests are expected to conform to the rules of the College and students will be held responsible for those whom they entertain. Resident students are welcome to bring guests to the dining hall, but are required to pay for them.

Intoxicants

The introduction by or for any student of beer, wine, spirits, or any kind of intoxicating liquor into the College is forbidden.

Fraternities

The various Societies and Clubs are all designed to fill the social and athletic needs of the students. The unique quality of life at King's revolves around the family atmosphere of a small united College. Membership in fraternities and other organizations unconnected with the College tends to break up this unity, and resident students are not encouraged to join them.

Behaviour

Students are expected to preserve a quiet and orderly behaviour at all times in the halls and corridors of the College, especially during the hours of Lectures.

Chapel

All students, both divinity and lay, are encouraged to attend the daily morning and evening services in the College Chapel. On Sunday mornings, all are expected to attend the Chapel Service or some other service of their choice.

Gowns

Students are required to wear academic dress at meetings of Convocation, in Chapel, at Divinity lectures, at dinner in Commons Hall, at tutorials and other formal interviews with the Faculty, and on other occasions when so ordered.

The academic habits shall be such as have been customarily worn in King's College in times past.

EXPENSES *

Resident Students

The annual charges for board, light, etc., to Resident Students from Arts and Science registration day (including Sunday, September 22nd) until Dalhousie Convocation Day are as follows:

	Double	Single
Men's Residence	\$575	\$600
Women's Residence	\$600	\$625

Students in residence must make a deposit of \$300.00 at the commencement of the first term, the balance of the bill to be paid in February when the account is rendered.

Non-Resident Students

Non-Resident Students must pay for the following at commencement of the first term: student body fees, the cost of gowns and caps, and any tuition fees payable to the University of King's College.

Surcharges

If deposit is not paid within 21 days of registration day a surcharge of 5% will be charged and a further 2% for each additional complete month until paid. The same applies to charges payable by Non-Resident Students. Bills will be rendered in February and if not paid within 21 days a similar surcharge and interest as above will be added.

* Payment must be made at par, Halifax, N. S. Please make cheques payable to the University of King's College for the required amount and for convenience add "plus exchange", if outside Halifax area.

Fee for Student Organizations

At the request of the King's student body, a fee of \$22.00 is collected on enrolment from each student who takes more than one class. This fee entitles the student to the privileges of the various students' organizations and clubs, and a copy of the King's College RECORD.

Caution Deposit

On enrolment each resident student is required to make a deposit of \$15.00 as caution money to cover damage done to furniture, etc. This amount less deductions will remain a credit on the books until the student graduates or leaves, when the balance will be returned by cheque, usually during June. No refund in whole or in part will be made before that month.

Each year a student, on returning, is expected to settle for the previous year's deductions so that his credit may be maintained at \$15.00.

Discipline

The Board of Discipline may use any means deemed necessary in order to maintain discipline in the residence and on the premises of the University. It is the duty of the Deans, resident professors, and Students' Council to see that order is maintained. Every professor or officer of the College is required to report any cases of improper conduct that may come under his notice. Students conducting themselves in an unbecoming manner on or beyond the premises of the College during the session may be fined, suspended or expelled.

WOMEN'S RESIDENCE

The residence for women students is conducted under practically the same regulations as the residence for men.

All women students who do not live with parents or close relatives must live in residence.

All residents are under the general supervision of the Dear of Women.

Women students wishing to be out after evening chapel must notify the Dean and state where they are going. Permission must be obtained from the Dean to be out after 11 p.m. and a record is kept of the hour of return of those who have received such permission.

GENERAL UNIVERSITY REGULATIONS†

Registration

All students of the University are required to appear in person at registration and to enter their names in the Register annually, agreeing to obey all the regulations of the University already made or to be made, and to pay the required fees and deposits before entering any class or taking any examination.

Under no circumstances may a student register unless all previous accounts to the university are paid.

Each student registering for the first time will have a tuberculin test, and all students who had a negative tuberculin reaction the preceding year will also be re-tested. Registration will not be complete until this has been carried out.

Penalties for late registration will apply from the date a student fails to keep the appointment for the reading of the tuberculin test or the x-ray, whichever is applicable.

Students withdrawing from the University or intending to discontinue the work of any Arts or Science class must notify the Registrar.

Discipline

If a student is required by a Faculty to discontinue attendance in the Faculty solely because he has failed to maintain the required academic standing, he is not regarded as dismissed on grounds of general discipline and his right to be considered for admission to another faculty is unaffected.

When the work of a student is unsatisfactory, or his attendance is irregular without sufficient reason, he may be dismissed from one or more classes, or from the University.

No return of fee will be made to any student dismissed from classes or from the University.

† It is to be distinctly understood that the regulations regarding courses of study, examinations, fees, etc. contained in this Calendar are applicable to the current year only; and that the University does not hold itself bound to adhere absolutely to the curriculum and conditions laid down.

Non-Academic Student Activities

Students representing the College in non-academic activities must be in good standing. Those who are ineligible for such representation are as follows:*

(a) Students on probation in any Faculty. (b) Students registered for fewer than ten lectures per week, a period of two laboratory hours being regarded for this purpose as equivalent to one lecture. (c) Students who have more than two failures in college subjects.

Tutors

King's professors are always ready to arrange auxiliary classes for King's students who need them. There is also an organization set up by the Student Council under which students who are weak in certain subjects may be tutored by Senior Students specializing in those subjects.

King's College Library

The library is open every weekday from 9 a.m. to 1 p.m. and every day except Saturday and Sunday from 2 p.m. to 5.30 p.m., and most of the session from 7.00 p.m. to 10.45 p.m.

Books, other than those on the reserved lists, may be taken out by instructors or students and kept for one week.

Books on the reserved lists may be taken out immediately before the closing of the library on any day, and must be returned when it opens on the following morning.

Not more than two books may be borrowed at one time by a student not in an Honours course, nor more than four by a student taking Honours.

Students are given the privilege of borrowing books from the library for the summer. Students using the privilege are required to make a deposit with the Librarian's Office. This deposit is returnable when the books are replaced in the library.

Dalhousie Libraries

King's students enjoy the same privileges in the Dalhousie Libraries as Dalhousie students. For regulations and hours see the current Dalhousie calendar.

Other Libraries

Arrangements can be made for King's students to use the Halifax Public Library, the Nova Scotia Technical College Library, Pine Hill Library and the Legislative Assembly Library.

*These regulations do not apply to the Dramatic Society.

Conferring of Degrees

Successful candidates for degrees are required to appear at Convocation in the proper academic costume to have the degree conferred upon them.

By special permission of the Senate degrees may be conferred, in exceptional cases, *in absentia*. Written application giving reasons for the request must be made well in advance to the Secretary of Senate. The additional fee for such degrees conferred at Convocation is \$10.00

Student Employment

The National Employment Service of the Unemployment Insurance Commission, in co-operation with the University, maintain an office on the campus from September to May (inclusive). This is done to assist students in obtaining employment and to assist employers wishing to recruit at Dalhousie.

All students wishing assistance in obtaining part-time, summer, or graduates seeking permanent employment, are urged to register early in October with the University Placement Officer, Room 150, Arts and Administration Building.

There is an opportunity for men students to earn part of their college expenses by working in the Library or Dining Hall.

STUDENTS' HEALTH SERVICE

The Students' Health Service is located at the Dalhousie Public Health Clinic.

1. All students registering for the first time at the University are required to undergo a medical examination at the beginning of the session. A student is not covered by the Students' Health Service until he has complied with the requirements set out in this section. (Especially Sec. 1 & 4b.)

2. Appointments for these examinations will be made at the time of registration. Students are excused from classes to keep such appointments.

3. Annual examinations will be required of all students who are found on admission to be in a low medical category, and also of students participating in major sports.

4. The Students' Health Service provides the following services:

- (a) An annual medical questionnaire to be completed at the time of registration.
- (b) Each student registering at Dalhousie University for the first time will have a tuberculin test and all students who had a negative tuberculin reaction the preceding year will also be re-tested.

Each student who receives the test will be required to return after two days for its interpretation. If the reaction is positive he will be required to have a chest X-ray. If the reaction is negative his registration record will be completed in the appropriate section.

Those requiring an X-ray will have the registration completed when the X-ray is taken.

Students who are conscientious objectors to the tuberculin test or X-ray must indicate this and must obtain a certificate of good health from the Students' Health Service.

Registration will not be complete until 2, 3, or 4, as appropriate, has been carried out. Penalties for late registration will apply from the date a student fails to keep the appointment for the reading of the tuberculin test or the X-ray, whichever is applicable.

- (c) A medical examination of students who request it because of illness**. **Students are urged to seek medical attention early in illness.**
- (d) A medical service for minor ailments at the Dalhousie Public Health Clinic from 12.15 noon to 1.15 p.m. daily except Sundays. A student who is too ill to attend the noon clinic or who is taken ill outside of clinic hours may consult a doctor of his own choice. The Students' Health Service will pay for physicians' call at the rate of \$3.00 for the first visit and \$2.00 for the second, with a limit of \$5.00 for each illness. Students may pay the doctor's fee and bring receipted bill to the Students' Health Service Office, or may have his bill sent directly to that office.

**Physical examination certificates for scholarships, summer employment, etc., are not the responsibility of the Students' Health Service.

- (e) Any medicines (except antitoxin sera, insulin or other unusual preparations) and dressings that are available through the Halifax Visiting Dispensary. Except in unusual circumstances the service is not responsible for cost of drugs obtained elsewhere than the Dispensary.
- (f) A free clinic for immunization against diphtheria, and vaccination against smallpox held every Wednesday at 2. p.m. at the Dalhousie Public Health Clinic.
- (g) Hospitalization Expenses:

The Emergency Department of the Victoria General Hospital is available to students if the need arises. If required to enter hospital for observation or treatment during the academic year (excluding Christmas recess) a student, on discharge from the hospital, should present the receipted bill to the Director of the Students' Health Service. Students whose hospital account is not already covered by an insurance plan will be reimbursed by the Business Manager of the University at the ward rate to the extent of nine days in any one session. If the student uses semi-private or private facilities in the hospital, he must pay all room charges in excess of the ward rate and X-ray and laboratory charges if any.

For students not admitted to hospital but requiring laboratory and/or X-ray investigation, these services will be paid for by the Students' Health Service up to a maximum of \$30.00, but only if the services have been ordered in advance by the Students' Health Service. Payment will not be made for such services ordered by private physician, unless authorized.**

5. The Service does not provide for the following:

- (a) Surgical operations other than in the Public Wards of the Victoria General Hospital.

**Students should ascertain their eligibility under their own province scheme for hospitalization.

- (b) Treatment by Specialists other than those physicians to whom a student is referred by the Students' Health Service.
- (c) Dental treatment.
- (d) Physician's fee for attendance elsewhere than at the Dalhousie Public Health Clinic, except as stated in Section 4 (d) hereof.
- (e) Illness attributable to misconduct.
- (f) Hospitalization except as stated in Section 4 (g) hereof. Elective surgery is not provided.
- (g) Any other service not specified in Section 4 hereof.
- (h) Obstetrics, and hospital rates connected therewith.

6. Arrangements for consultations during the session are to be made through the office of the Director, Students' Health Service, Dalhousie Public Health Clinic (Telephone, 423-8438).

7. All students are expected to carry out the instructions of the physician to the fullest extent possible. Failure to do so will be regarded as a breach of University discipline.

8. All students entering the University who cannot submit certificates of having been successfully vaccinated against smallpox shall be required to submit to vaccination.

9. Coverage under Students' Health Service is for all registered students with the exception of:

- (a) Students registered for the degree of Bachelor of Nursing Science—for period in hospital only.
- (b) Students in 5th year Medicine.
- (c) Students in Graduate Psychiatry.
- (d) Occasional students.

SERVICES TRAINING

University Naval Training Division

The University Naval Training Division constitutes Canada's chief source of supply of naval officers, both permanent and reserve. While students work towards a University degree, they have the opportunity of earning a commission in the Naval Service.

Weekly drills are held one evening a week during the winter and intensive training with generous pay is carried out in ships and establishments during the summer vacation period. Further details may be obtained from the Resident Staff Officer whose office is located in the Dalhousie University Gymnasium.

Canadian Officers Training Corps

The Dalhousie-King's Universities Contingent of the Canadian Officers Training Corps provides an opportunity for any male student, who is seventeen years of age and physically fit, to become a qualified officer in the Canadian Army (Active or Reserve).

Theoretical training during the academic year consists of one two-hour evening lecture per week. Practical phase training during the summer months offers a maximum of twenty-two weeks' employment at a Corps School. Officer cadets receive full pay and allowances of a second lieutenant during this period. Transportation, room and board, and clothing are supplied at the Corps Schools.

Further details may be obtained from the C.O.T.C. office in the Dalhousie Education Building.

R. C. A. F. Reserve University Squadron

The Reserve University Squadron provides officer training in the technical, non-technical, and air-crew branches of the Royal Canadian Air Force to male students who meet the R.C.A.F. standards and who are available for three summers of training before graduating from the University.

Cadets receive pilot officer's pay during the summer training period. Squadron lectures are held each Wednesday evening during the winter.

Further details may be obtained from the Resident Staff Officer whose office is in the Dalhousie University Gymnasium.

Regular Officers Training Plan

Approved students may obtain subsidization under the Regular Officers Training Plan by undertaking to do the prescribed cadet training of any of the three services while at-

tending the University and to serve a limited full-time engagement in the regular force on completing their course. Full details may be obtained from any of the Resident Staff Officers or from any recruiting office.

Children of War Dead (Education Assistance)

Children of War Dead (Education Assistance) Act provides fees and monthly allowances for children of veterans whose death was attributable to military service. Enquiries should be directed to the nearest District office of the Department of Veterans' Affairs.

Faculty of Arts and Science

The Academic Year begins September 23rd, 1963,
and ends May 14th, 1964.

ADMISSION

The attention of students entering the Faculty of Arts and Science for the first time, whether in the First or Second year, is called to the fact that the registration for such students takes place on September 23rd and 24th.

All students entering King's College in Arts, Science, Pre-Medicine, Pre-Dentistry, Pre-Law and Journalism must enrol with the King's Registrar before registering at Dalhousie.

No person under sixteen years of age is admitted to any class except by special permission of the Senate.

Graduate Students are students who hold a Bachelor's degree in Arts or Science or Law or the degree of Doctor of Medicine and are pursuing a course towards a Master's degree.

Undergraduates are students who have completed the requirements for admission and are candidates for a Bachelor's degree, for a degree in a professional course or for a Diploma in an Authorized Course.

Occasional students are those who are not candidates for a degree or diploma but who wish to take one university class because of their interest in it. The total cost payable by an occasional student is \$45.00 per class. No class taken on



The Rt. Rev. R. H. Waterman, Bishop of Nova Scotia, and the Royal Couple examine the Charter of 1802, granted to King's College by King George III

The first few days of August of 1959 saw Her Majesty the Queen and Prince Philip in Halifax, on the last leg of the 1959 Royal Tour of Canada.

Among her engagements in Halifax was a short visit to the University of King's College. On August 3, 1959, she made her visit to the college, and was greeted on behalf of King's by the Lord Bishop of Nova Scotia. The Queen and Prince Philip then entered their names in the visitors book, after which they were introduced to the faculty of the oldest University in what is now Canada.

The Queen and her husband also examined the Royal Charter of the college, granted by her ancestor, King George III, in 1802.

AT KING'S



these terms may be offered as a credit towards a degree or diploma at Dalhousie University, and no official transcript will be issued.

A student who wishes to take more than one class without credit towards a degree or diploma at Dalhousie University, may be admitted, if qualified, as a **Special student**.

Entrance Requirements

To be admitted to a regular course leading to a degree in Arts or Science, a student must have credit for **seven** subjects of Junior Matriculation in (1) English, (2) Algebra, (3) Geometry, (4) a foreign language, (5), (6) and (7), any three from: History, Physics, Chemistry, Biology, Trigonometry, Latin, Greek, French, German, Spanish. A mark of 50 per cent in each subject is required, with an average of 60 per cent. Certificates must be presented for application before September 1st.

In **exceptional** cases, students not fulfilling the above requirements may be admitted. Such students are considered to be fully matriculated.

Note: Students who, by reason of race or training, are fluent in another foreign language may offer it in place of one of those specified above.

Certificates of Matriculation

Satisfactory marks in any of the subjects listed above will be accepted as credit toward the entrance requirements if such marks are granted on any of the following certificates:

- (a) Certificates of the Common Examining Board of the Atlantic Provinces.
- (b) High School Provincial or "Accredited" School Certificate of Grades XI or XII of Nova Scotia issued by the Department of Education of the Province of Nova Scotia.

The pass mark on Grade XI is 50%. Marks of 40% or over on Grade XII subjects may be counted as equivalent to passes in corresponding Grade XI subjects.

- (c) Equivalent Certificates issued by Education Departments of other Provinces.
- (d) Second Year Certificates issued by Prince of Wales College, Charlottetown, Prince Edward Island.

- (e) Certificates of Matriculation Examinations taken at recognized Universities.
- (f) Certificates similar to the above issued by University or other official examining bodies, when found adequate.

Candidates holding certificates which they wish to offer for exemption as above should forward them for appraisal as early as possible to the Registrar, King's College, Halifax, N. S.

ADMISSION WITH ADVANCED STANDING

On Grade XII (or XIII) Certificates

Matriculated students may obtain exemption from not more than five of the following University classes (which may be chosen from both groups):

Group A—Greek 1, Latin 1, French 1, German 1,
English 1**, History 1, Mathematics 1*.

Group B—Chemistry 1, Physics 1, Biology 1, Geology 1

Exemptions are granted only on the following conditions. For a subject in Group A a student must have obtained a mark of 50 per cent or more on the Grade XII or XIII certificate.

For a subject in Group B a student must have obtained a mark of at least 75 per cent on the Grade XII or XIII certificate, must submit a laboratory book which is deemed satisfactory by the Department concerned, and must pass the regular Fall examination set by that Department on the work of the past session.

No degree credit will be given for certificates obtained after a student has been registered in the University.

The certificates to which these provisions apply are the following:

- (a) High School or Accredited School Certificate† of Grade XII of Nova Scotia issued by the Department of Education;

*Grade XII Mathematics will be accepted as exemption in engineering from Mathematics 1E only if student's mark is 65% or over in both Algebra and Trigonometry.

Grade XIII from Ontario will be accepted if it includes Algebra, Geometry and Trigonometry.

†The standard requirement is 50% in each subject.

**Admission to English 2 will be granted only if certificate Grade XII (or XIII) mark is 65% or more.

- (b) Equivalent Senior Matriculation Certificates issued by Departments of Education of other Provinces, or approved by the Committee on Admissions.

Students having credit for at least four of these classes will be given an opportunity to complete a course for a degree in three years, but it should be noted that only students of superior ability can do this. A candidate will be allowed supplemental examinations in the subjects required to complete five classes provided that the certificate shows a mark of at least 30 per cent in such subjects and that the candidate has credit for the corresponding matriculation subjects. This applies to subjects of Group (A) only.

Students from recognized Junior Colleges who present satisfactory certificates, may receive credit.

Admission ad Eundem Statum

Students from other Universities desiring to enter classes in this University may, on producing satisfactory certificates, be admitted with advanced standing and given credit for classes equivalent to those offered by Dalhousie University. Before proceeding to a degree they must have completed all required classes. No student shall be admitted to a degree in a course in this University unless he has attended and passed in at least one year's work* in the Faculty in question, and that the last year of the degree course.

Persons seeking admission ad eundem statum must, in making application, submit satisfactory evidence of good character and academic standing, with duly certified statements of their Matriculation, and of the classes attended and passed, with the grades attained; and, if necessary, calendars of the institution from which they have come of such dates as to show the courses which they have followed.

*In the Faculty of Arts and Science "one year's work" is interpreted to mean at least five classes of college grade. These classes shall not include any class taken in affiliated courses.

AFFILIATED INSTITUTIONS

Prince of Wales College

Students who have completed the regular four year course of Prince of Wales College, Charlottetown, P.E.I., and who have graduated with standing equivalent to a High Honours Diploma, are admitted to the Arts and Science course without further examination, and may receive credit in classes of the first and second years to a maximum of ten. See also page 25.

Halifax Ladies College

Students who have completed the regular course and received the Matriculation Diploma are admitted to the Arts and Science course without further examination.

GENERAL FACULTY REGULATIONS

Admission to Classes

1. No Undergraduate shall be admitted to a class until he has satisfied the preliminary qualifications (see page 25 *et seq.*).

2. The list of classes which a student may take should include all possible required classes, before any elective is added, but candidates for admission to Honours courses may have this rule modified on application to the Committee on Studies.

3. Five classes shall be regarded as constituting a normal year's work for a student in good standing, and should not be exceeded without permission of the Committee on Studies.

Full time students registered in the Faculty of Arts and Science, or in Graduate Studies, may be allowed with permission of the lecturer concerned, to audit such other courses and such portions of other courses as they desire.

Students who have registered for a course and whose names have been included in the instructor's list, are required to obtain his written consent before being allowed to drop the course.

4. Any student who at the end of the Pre-Christmas term has not shown reasonable proficiency, may, at the discretion of the Faculty, be required to discontinue attendance at the University for the remainder of the session. Fees will not be refunded to such students.

Class Work and Attendance

In order that their class work may be recognized as qualifying for a degree or diploma, candidates must conform to the following requirements:

1. All students are required to attend the classes of their prescribed courses regularly and punctually.

2. They must appear at all examinations, prepare such essays, exercises, reports, etc., as may be prescribed and, in case of a class involving field or laboratory work, complete such work satisfactorily.

3. In determining pass lists both the standing attained in prescribed class exercises and in field or laboratory work and that in the various examinations are taken into consideration. A candidate who fails to obtain a mark of at least 40 per cent on the work of the session in any class shall lose credit for attendance in such class.

4. When the work of a student becomes unsatisfactory or his attendance irregular he will be reported to the Committee on Studies which may require him to discontinue attendance in the class or classes concerned and to be excluded from the examinations.

5. A candidate taking classes in another Faculty as part of an affiliated course must conform to the regulations of that Faculty.

6. In order to be allowed to return the following year, students in their first year of University attendance are required to pass in the Spring examination two classes for which they were registered in the Fall. After his first year of attendance (whether taken at Dalhousie or any other university), a student must pass in at least three classes per year in order to be allowed to return the following year. This will not include supplemental examinations. (Note—Engineering students will be expected to pass three-fifths of the classes for which they are registered in that year.) No credit will be given for any classes taken at another university while the student is inadmissible at Dalhousie.

7. A student who returns to the university after a year's compulsory absence through previous failure must pass three classes at the final Spring examination of the year of his return; failing this he will be denied admission at any future date.

8. All students must be registered and in attendance in the Faculty of Arts and Science in the last year of their degree courses except in the case of students registered in the affiliated courses of Law, Medicine or Dentistry.

9. A student wishing to transfer from another university will not be admitted into the Faculty of Arts and Science if he has been refused readmission on academic grounds at the other university.

10. If a student is admitted from another university, he will be given credit for classes equivalent to those offered by Dalhousie, if such would be credited to him at the other university.

EXAMINATIONS

Sessional and Class Examinations

In all classes two examinations are held, the Christmas examinations (or their equivalent) at the end of the first term, immediately before the Christmas vacation, and the Spring examinations, after the close of lectures in the spring. Other examinations in any class may be held at dates appointed by the instructor. The papers set at the Spring examination in any subject cover the work of the whole session in that subject, and not merely the work of the second term, and approximately 25 per cent of the questions shall be set on the work covered before Christmas.

Class Lists

The names of candidates successful in the examinations are arranged in the published lists in three divisions: First Division 80-100; Second Division 65-79; Third Division 50-64.

Supplemental and Special Examinations

A student who fails to secure a position on the Pass List in a class, but who has otherwise fulfilled the requirements in class work stated on page 29, may be allowed the Supplemental examination in that class at the beginning of the next session of his attendance, on the day appointed in the University Almanac, provided that no student may write more than two supplemental examinations on the work of any session, or an examination in any class in which he obtained a final mark below 40%. A student who fails to write or pass the Supplemental examination can obtain credit for this class (without repeating it) only by passing a Special* examination.

Not more than two special examinations may be written in any one subject.

Supplemental or Special examinations in any class shall cover the whole work of the session in that class, and not merely the work of the first or second term.

Supplemental and Special examinations for registered students are held in September only.

A student wishing to appear as a candidate at a Supplemental or Special examination shall be required to give notice of his intention to the Registrar's office on or before August 20, the fee (see page 34) to be remitted with the notice.

Not more than 5 classes passed by supplemental examination will be counted towards a degree. This will apply to students who entered in 1950-51 and subsequent years.

PRIVILEGES IN OTHER INSTITUTIONS

The University of Oxford exempts from Responsions an undergraduate in Arts of this University who has passed in the subjects of the second or a higher year. A Bachelor of Arts with Honours is further exempted from four terms of residence. The Trustees of the Rhodes Scholarships exempt from the qualifying examination candidates who are exempted from Responsions by the University of Oxford.

The University of London exempts Bachelors of King's University from the Preliminary Examinations leading to the LL.B. degree of that University.

*Students who have failed to pass in any class should carefully note that any examination taken subsequent to the Supplemental examination held in September of the next session of their attendance is a Special examination. The standard required to pass a Special examination is considerably higher than that required for other examinations.

FEES*

PAYMENT.

All fees are due and are expected to be paid on registration date. Fees must be paid in Canadian Funds at par in Halifax (add 1/3 of one per cent, minimum 15c on cheques outside the Halifax area). Post-dated cheques cannot be accepted.

If a student is unable to comply with the above regulation, the following terms will be accepted:

Minimum payable at registration \$100. (No registration will be accepted without this payment and a late fee of \$5.00 per day will be charged until this is paid).

Students registering for 1 or 2 classes are required to pay total fees upon registration.

Accounts outstanding as of November 1st will be subject to a carrying charge calculated at 50c per month per \$100 or nearest \$100 owing, and will continue to be charged at the beginning of each month on any outstanding balance until final payment is made.

Fees outstanding after 15th February are subject to surcharge of \$10 in addition to the carrying charge.

After April 15th, a \$20 surcharge will be added to above carrying charge.

Credit will not be given for attendance upon any class and final examination papers will not be read until all charges are completely paid. Examination papers will not be held for more than 6 months after the writing of an examination.

In a graduation year all fees must be paid before April 15th.

Salaries paid by Dalhousie cannot be applied to fees.

BILLS FOR FEES will not be issued. The receipt issued at registration will show balance, if any, outstanding.

LATE REGISTRATION.

Students are required to register on the regular registration date as shown on page 24. Late registration requires approval of the Dean of the Faculty and an extra fee of \$5.00 per day. No student is considered registered until a minimum payment of \$100 is made. A student registered for 1 or 2 classes is not considered registered until full fees are paid.

CHARGES

Full time students registered for more than 2 classes. (*Additional fee in graduating year only - Year Book \$5.00*).

Faculty of Arts and Science—

Arts, Science, Commerce, Education.....	\$465.00
Engineering	520.00
King's Students	428.00

The above charges include laboratory fees, examination and diploma fees, instrument rental charges, and hospital clinics where applicable, and the following incidental fees:

(a) Registration Fee	\$ 5.50
(b) Student Health Fee	5.00
(c) Library Fee	5.00
(d) Rink and Athletic Fund.....	3.00
* (e) Student council Fee (including \$10.00 for Student Union Building)	34.00
(f) Faculty Society Fees (Arts and Science).....	.50

*A student enrolled at King's is required to pay the King's Council of Students' fee of \$22.00, but not the Dalhousie Council of Students' Fee, or the Rink and Athletic Field fee. However, any King's student who wishes to participate in the Dalhousie Council of Students activities must pay both of the above Dalhousie fees. Dalhousie students resident at King's College must pay King's College Council of Students' fee of \$17.50.

Part time students (These charges include incidental fees of registration and library only):

Students registering for 1 or 2 classes in all Faculties for University credit per class \$90.00

Occasional students (This charge does not entitle students to any privileges other than attendance at class):

Students not candidates for University credit who wish to take one University lecture class because of their interest in it. No credit or official transcript will be issued to such a student.....\$45.00

EVENING CLASSES

For students wishing to enrol in a single Arts class, take the examination and obtain a certificate.....\$55.00

For students wishing to audit such a class without writing the examination or obtaining a certificate.....\$45.00

In all other cases regular tuition fees apply.

Payment of fees for evening classes is required on registration.

A printed folder describing courses offered in the evening programme is available upon request.

FACULTY OF THEOLOGY

Students taking the whole of the Divinity Course will be charged each year..... \$ 150.00

Arts students in the affiliated course taking courses in Divinity (each)

.....	\$ 40.00
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For Probationary Year in Divinity fees are as follows:

Religious Knowledge	no charge
English Bible 1 or 2.....	\$ 40.00

Elementary Greek, Sociology 1, Philosophy 1 and either English 1 or History 1 (each).....	\$ 90.00
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JOURNALISM

Payable to King's College (each)..... \$60.00
 Arts subjects payable to Dalhousie.

EXAMINATIONS

An application for examinations must be accompanied by the proper fee:

Supplemental and Special (per examination).....\$15.00
 At an outside centre (each—extra)..... 5.00
 **For re-examination of a paper..... 3.00

Application for re-marking must be made in writing to the Registrar within three months of the date of the examination.

For any application accepted after August 20th, an additional fee of \$2.00 per day (maximum \$5.00) must be paid. If application for refund of supplemental examination fee is not made on or before Aug. 31, the fee will be forfeited.

DIPLOMAS

Diploma Fees are payable at Registration in the final year of the course.

Journalism Diploma\$10.00
 L.Th., S.Th., A.K.C. 12.00
 B.S.Litt., B.S.T. 20.00
 M.S.W. 20.00
 B.D. 26.00
 D.D. 42.00

Additional fee for any degree conferred in absentia at the Spring Convocation\$10.00

***CERTIFICATES

An application for a certificate must be accompanied by the proper fee:

Certificate of Standing: First transcript.....no charge
 Additional copies: each original.....\$1.00
 Extra copies, each......50

**Conjoint examinations in the professional faculties will not be re-marked. Application for re-marking must be made in writing to the Registrar within three months of the date of the examination.

***No certificates will be issued until all charges owing by the student to the University have been paid in full.

STUDENT PHOTOGRAPH

A photograph will be taken of each registered student at registration time. The cost is included in the total fee.

LABORATORY CHARGE

No laboratory deposit is charged. Individual students will be charged for careless or willful damage.

REFUND OF FEES

Within two weeks of registration date a student may retire from a class or course for which he has registered, and his fee will be refunded.

No refund shall be made for reduction in classes by action of the Faculty, dismissal from classes or from the University, or for a class or classes voluntarily discontinued by the student.

In cases of withdrawal from the University or from a class during a session the student must obtain an interview with the Dean of his or her Faculty and a written report must be made by the student to the office of the Registrar, stating date and reason for withdrawal. A student withdrawing from the University must report personally to the Business Manager before any refund of tuition fees will be considered.

King's College students must report AS WELL to the Registrar and Bursar, King's College.

The above requirements having been completed and approval in each case obtained, the student withdrawing from the University during the session will be charged with:

- (a) Full incidental fees for the session.
- (b) One half of the tuition fee for the session if the withdrawal occurs before January 31.
- (c) The full tuition fee for the session if the withdrawal occurs after January 31.

No reduction will be made in the tuition fees payable by a student repeating a class or course.

DEGREES AND COURSES

The courses for the degrees of Bachelor of Arts and of Science extend over four years. Candidates for these degrees may either follow the corresponding Ordinary course, or, if they have obtained sufficiently high standing in the work of the first two years, may in their third year enter upon a course leading to the degree of Bachelor of Arts or Science with Honours. (See page 40).

Students with high academic standing are urged to consider applying for admission to an Honours Course, and to consult, during their first or second year, with those Departments in which they might wish to enrol for an Honours Course.

A student in Arts or Science may take the degree in one of two grades.

- (A) Ordinary Degree. (See below).
- (B) Degree with Honours. (See pages 40-41).

(A) Ordinary Course

The twenty units for the ordinary degree must be selected from the following list and arranged in accordance with the table on pages 38 - 39.

- Biology;
- Chemistry (including Biochemistry);
- Classics (Greek and Latin);
- Economics (including Sociology);
- English Language and Literature (including English Bible);
- Geology;
- German;
- Hebrew;
- History;
- Mathematics;
- Philosophy;
- Physics;
- Political Science;
- Psychology;
- Religious Studies.
- Romance Languages (French, Spanish);
- Russian.

All students registering for the Third and Fourth Years must have their courses approved by the Committee on Studies and Attendance.

An Honours class may be taken as an elective by students not taking Honours, if approved by the Department.

Lists of the classes chosen by students must be submitted for approval not later than Tuesday, October 8th, 1963.

Students expecting to enter the teaching profession are requested to consult the Professor of Education before registration.

TABLE I

Course for B.A.		Course for B.Sc.	
Units	The ordinary course of study prescribed for the Bachelor of Arts degree consists of the following twenty classes:	Units	The ordinary course of study prescribed for the Bachelor of Science degree consists of the following twenty classes:
6	(i) Two classes in English; one class in Mathematics; three classes in one foreign language, or Greek A, Greek 1 and Hebrew 2.	4	(i) Two classes in English. Two classes in French or in German or in Russian.
1	(ii) One class in Biology, Chemistry, Geology, or Physics.	4	(ii) One class in each of the following: Chemistry, Mathematics, Physics, Biology or Geology.
2	(iii) Any two of: a university course in European History, Philosophy 1, Psychology 1.	1	(iii) One class in one of the following: Classical Literature in translation, English, History, Economics, Political Science, Philosophy, Psychology or a Foreign Language. (If a Foreign Language is offered it may be a third class in the language offered in Section (i) above or a class in another language—if the latter is an "A" class (e.g. German A) a second class in the same language must be offered in Section (v), below).
1	(iv) Any one of: Economics 1, Political Science 1, Sociology 1.	7	(iv) Seven other classes which require a university class as prerequisite selected from not more than three of the departments of Science and Mathematics.
1	(v) Classical Literature in translation or a class in Latin or Greek beyond Latin 1 or Greek 1*.		
6	(vi) Six classes which require a university class as prerequisite selected from not more than two departments.		
	Continued on page 39.		

* A student who has elected Latin or Greek to satisfy the language requirements of Section (1) may substitute for this course one additional class in Sections (vi) or (vii).

Course for B.A.		Course for B.Sc.	
3	(vii) *Three elective classes, so that of the nine classes chosen from sections (vi) and (vii) not more than seven are in any one department.	4	(v) Four other classes, of which Mathematics 2, if not taken in Section (iv) above, must be one.
	(viii) Students taking an affiliated course may substitute the first year of Law, Medicine or Dentistry for the three elective courses. Hebrew 1 may count as a credit in this section.		Candidates taking at least four classes in Geology may offer Drawing 1, Drawing 2, and Surveying 1, as three classes in this group. Students taking affiliated courses may substitute the classes for the Diploma in Engineering, the classes for first year Medicine or Dentistry, or the classes for the Diploma in Pharmacy for three classes in this group. Students not taking the affiliated course with Engineering, may count Drawing 1 and Mechanics 2 under this Section.
20		20	

*Pre-Divinity Students see (h) on page 43.

The Faculty strongly recommends that all students take Religious Knowledge in the first year. See page 45.

ORDER OF CLASSES

Candidates who intend to take one of the Affiliated Courses, or to enter an Honours Course, should consult the Registrar concerning the proper order of their classes.

Affiliated Courses

An undergraduate looking forward to the study of Law, Medicine or Dentistry may offer one of the following groups in place of the 3 classes of (vii), Table 1:

For Law—The classes of the first year, provided conditions are satisfied for entrance into second year Law.

For Medicine and Dentistry—The classes of the first year.

Honours Courses (B)

Students of ability and ambition are urged to take a course leading to the Bachelor's degree with Honours. The course entails (a) a certain degree of concentration, (b) additional work in the subject chosen for Honours, (c) a higher quality of work than that for the ordinary Bachelor's degree.

It is recognized that students may not be sure, in their first and second years, of the subject in which they will want to take Honours. Students considering applying for admission to an Honours course are, therefore, advised to consult in their first and second years with all those Departments in which they might want to enrol for an Honours course.

The following are the general rules for an Honours course:

1. A student may obtain Honours in four years from Grade XI if he spends all four years at the University. In certain departments, students who are well prepared may be allowed to obtain Honours in three years from Grade XII.

2. Honours students must be accepted by the department concerned. Their whole plan of study must be under the supervision of that department during the last two years of their course.

Formal application for admission of a student by the Faculty to an Honours course must be made by the head of the department concerned to the Committee on Honours, in triplicate, on forms that are available in the Registrar's Office.

3. To obtain Honours, a student must:

- (a) observe the rules for the ordinary B.A. or B.Sc. degree as laid down in the Calendar, (pp. 36-39).

- (b) take at least five advanced classes prescribed by the department in which he is taking Honours;
- (c) take two additional or special classes—one in the third year and one in the fourth year in the department in which he is doing his Honours work. (These classes shall be primarily for Honours students and may be given in any way that the department may decide.) This means that twenty-two classes are needed for the B.A., B.Sc. degrees with Honours;
- (d) pass a comprehensive examination covering his Honours work at the end of his course;
- (e) make an average of not less than 65% in all his Honours classes. (This includes the five advanced classes, the two additional classes and the comprehensive examination at the end.)

4. In order to obtain First Class Honours a student must pass his Honours classes, as above in 3 (e), with an average of at least 80%.

5. A degree with Honours may be obtained in the following departments:

Biology	History
Chemistry	Mathematics
Classics	Modern Languages
Economics and Sociology	Philosophy
English Language and Literature	Physics
French (Romance Languages)	Political Science
Geology	Psychology
German (Modern Languages)	

OTHER COURSES

Master of Social Work

King's, like most other Maritime Universities, has entered into an agreement with the Maritime School of Social Work to confer the degree of Master of Social Work on those students who have completed successfully the requirements laid down for this degree. For further details a prospective student should write to the Director, Maritime School of Social Work, 150 Coburg Road, Halifax.

Master of Arts and Master of Science

In accordance with the Terms of Association, a graduate cannot take a Master's degree while enrolled at King's; but the attention of undergraduates is especially drawn to the standing and conditions needed in their courses before being admitted to work for a Master's degree.

Degree in Education

King's College graduates are eligible for the course leading to a Degree in Education. Education 1 is the only course for which undergraduates are permitted to register.

By arrangement with the Nova Scotia Department of Education, graduates in Arts and Science who have completed the course at Dalhousie University leading to a Degree in Education subsequent to receiving their degree in Arts or Science may receive a permanent High School Class Licence to teach in any public school in Nova Scotia.

Mastery of the content of this course is a necessary step toward securing the Professional Certificate (Class 1).

After the 1962-63 Session it will no longer be possible for a student who received the Dalhousie Diploma in Education before the institution of the B.Ed. degree, to proceed to that degree by presentation of thesis.

Diploma in Journalism

A School of Journalism was inaugurated in the fall of 1945, under the auspices of the University of King's College, Saint Mary's University and Mount Saint Vincent College.

The Academic subjects are given at the constituent Colleges. The Professional subjects are taken in common, and conducted by practical newspaper and radio people.

School of Divinity

ENTRANCE REQUIREMENTS

The normal Divinity course consists of the regular course for the B.A. or B.Sc. (3 years after Senior Matriculation, 4 years after Junior Matriculation) followed by 3 years in Divinity. Thus the normal entrance requirement is matriculation. It is customary for students to be accepted by a Bishop as candidates for ordination before entering the Divinity School, particularly if they are in need of financial assistance. This condition, however, is by no means obligatory, and students may take Divinity courses without being committed to ordination.

Those who already have their degrees will be admitted to the Divinity School direct.

It is most desirable that Divinity Students should reside in the College and take their full share in the privileges and responsibilities of college life. Circumstances in certain cases may move the Divinity Faculty to allow non-residence for part of the course; but students receiving such permission must be prepared to come into residence for at least one full college year.

COURSE FOR BACHELOR OF ARTS

The course of study prescribed for the Degree of Bachelor of Arts consists of the following classes:

- (a) Three classes in Greek*, or two classes in Greek plus Hebrew 2.
- (b) Two classes in English.
- (c) One class in Mathematics.
- (d) One class in either Physics, Chemistry, Geology or Biology.
- (e) Any two of a University course in European History, Philosophy 1, Psychology 1.
- (f) Any one of Economics 1, Political Science 1, Sociology 1.
- (g) Six classes which require a university class as prerequisite, selected from not more than two departments.
- (h) One elective in place of Classical Literature in Translation.
- (i) Three electives, one of which may be Hebrew 1.
- (j) Religious Knowledge to be taken in the First Year.

*In exceptional circumstances, the Dean of Divinity may allow substitution of another foreign language in place of Greek. In that case, Classical Literature becomes compulsory, and the student must also take and pass Greek A or Greek Bible A before entering the Divinity School.

DIVINITY COURSE

The standard academic qualification for ordination is the B.A. (or B.Sc.) followed by the L.Th. The L.Th. will be awarded on the basis of three years' work in the Divinity School (as distinct from the Faculty of Arts and Science). The L.Th. (Hons.) will be awarded to those who, after three years' residence, have passed all the required courses in the complete Divinity course (see below) together with no fewer than 3 Distinction courses (of which Hebrew² may be one), with an average of 65% each year and required Field Work. In order to obtain distinction a mark of 65% must be obtained. The L.Th. (Pass) will be awarded, at the discretion of the Faculty, to students who, after 3 years in the Divinity School, complete the required courses only, with or without Hebrew.

When a student at the instruction of his Bishop leaves the college after only 2 years in the Divinity School, he will be awarded the college *Testamur* if he has passed not fewer than 19 required Divinity courses (including 2 in Ceremonial, but excluding Hebrew). The *Testamur* will be awarded to students who, after 3 years' residence in Divinity School, fail to qualify for the L.Th., but satisfy the requirements of this paragraph. No academic recognition will be given to any student leaving the college with less than 19 Divinity credits.

Students who have their matriculation may, on the recommendation of a Bishop, be admitted to the Divinity School direct without completing any degree course. In such cases, they must complete a probationary year consisting of Religious Knowledge, English Bible 1 or 2, Greek Bible A, and the following courses in Arts—Sociology 1, English 1, and either History 1 or Philosophy 1. They must then take three years of Divinity, at the end of which they may qualify for the L.Th. or *Testamur* as above. Students who show marked incompetence in Greek Bible A may be required to drop Greek on entering the Divinity School and substitute exegesis or Greek Bible 2 or 3 plus additional work in other Departments. In such cases they will not be eligible for the L.Th., but may receive the *Testamur* with hood if satisfying all L.Th. requirements save Greek.

The provisions of this paragraph are generally intended for older men and only in exceptional circumstances will be allowed to men under twenty-eight years of age.

The Degree of Bachelor of Sacred Letters (B.S.Litt.) may be taken by Divinity students under the following conditions: The course consists of twenty approved classes in Arts and Science, followed by the complete Divinity course, plus three distinction courses passed with a minimum of 65%. The twenty classes must include at least two in Latin, and two in Classical Greek. Two classes in Hebrew must be taken in the Divinity School.

The Degree of Bachelor of Sacred Theology (B.S.T.) may be taken by those who already hold a bachelor's degree on entering the Divinity School, and who take and pass the complete Divinity Course, including two years of Hebrew plus two other distinction courses with an average of at least 65% which must be maintained every year, and any student falling short of it in the spring examination in either his first or second year will be required to revert to the L.Th. course.

Students who have received the B.S.Litt., the B.S.T., or other graduate students who have qualified for the Licentiate in Theology, with Hebrew or Septuagint Greek are in a position to proceed to the final examinations for the degree of B.D. under the General Synod Board of Examiners.

All Divinity Students and those looking forward to the study of Divinity will consult Professor Stone as to the choice and arrangement of their courses; then if approved by the Dean of Divinity, they will register in the Registrar's Office not later than September 28th.

A medical examination by the General Synod physician is required for all students during their first term in Divinity.

No student may write more than three supplemental examinations the recorded pass mark for which is 50%. A student with more than three failures at the end of a year must repeat the whole year.

COURSES

The complete Divinity Course consists of all below not marked "Distinction". Hebrew is not required for the L.Th. (Pass) or the *Testamur*.

Religious Knowledge—(Two hours a week). Open to all students of the College.

To be taken in the first year by all students looking forward to Divinity. This course is designed to meet some of the problems faced by the college student in reconciling the old faith with the new learning. The course may be taken by other students, men and women, who desire to do so. It does not count as an Arts credit, and there are no fees.

Greek Bible A—Three hours a week. (Not required of those who have taken Greek for their B.A.). An introduction to New Testament Greek.

Greek Bible 1—Two hours a week.
Synoptic Gospels, and Introduction to Textual Criticism.

Greek Bible 2—One hour a week. St. John.

Texts—British and Foreign Bible Society ed. of the Greek Testament 2nd ed., 1958.
C. K. Barrett: The Gospel according to St. John (SPCK).
C. H. Dodd: The Interpretation of the Fourth Gospel (CUP).

Greek Bible 3—One hour a week. Romans.

Texts—British and Foreign Bible Society ed. of the Greek New Testament 2nd ed., 1958.
C. K. Barrett: The Epistle to the Romans (Black).
Sanday and Headlam: The Epistle to the Romans (Scribners).
T. Schweitzer: The Mysticism of Paul the Apostle (Black).

Greek Bible 4—Septuagint (Distinction).

BIBLICAL LITERATURE

English Bible 1 and 2—

An introduction to the English version, designed to provide a basis for future intelligent study of the Scriptures by acquainting students with their contents, religious and literary values, and construction. A critical analysis of the various books, in the light of modern scholarship, will be undertaken.

English Bible 1—Old Testament—Two hours a week.

Texts: *The Bible—English Revised Version* (OUP).
R. H. Pfeiffer: *Introduction to the Old Testament* (Harper).

English Bible 2—New Testament—Two hours a week.

Texts: *The Bible—English Revised Version* (OUP).
A. H. McNeile: *An Introduction to the Study of the New Testament*, revised ed., by C. S. C. Williams (OUP).

English Bible 3—Two hours a week.

The history and literature of Israel from earliest times to 63 B.C. including its early religious, political and cultural development, the theological ideas of the Hebrew prophets, the exile and its effects, and the religious concepts and practice of Judaism in the post-exilic period.

Texts—C. A. Simpson: *Revelation and Response in the Old Testament* (Columbia UP).
N. K. Gottwald: *A Light to the Nations* (Harper).
M. Noth: *The History of Israel* (Black).
H. H. Guthrie: *God and History in the Old Testament* (Seaburg).
C. F. Whitley: *The Exilic Age* (Longmans).
M. Burrows: *The Dead Sea Scrolls* (Viking Press).
D. W. Thomas ed., *Documents from Old Testament Times* (Nelson).

English Bible 4—Two hours a week.

General introduction to New Testament times; the advent of Jesus Christ, the primitive church and its gospel, St. Paul's life and work, the synoptic gospels, Acts, Hebrews, Revelation, the Fourth Gospel, the Pastoral Epistles, the formation of the New Testament Canon, Manuscripts and Versions.

Texts—R. H. Pfeiffer: *A History of New Testament Times* (Harper).
C. K. Barrett (ed.): *The New Testament Background, Selected Documents* (SPCK).
H. E. W. Turner: *Jesus, Master and Lord* (Mowbray).
D. Nock: *St. Paul* (OUP).

English Bible 5—(Distinction).

Aspects of Biblical theology.

CHURCH HISTORY

Church History 1—Two hours a week.

General Church History to 1500.

Church History 2—Two hours a week.

English Church History. The British Church: Celtic and Roman Missions; the Church of England before the Conquest; Growth of the Papal Power. The New Learning and the English Reformation; Puritanism and Erastianism; The Evangelical Revival; the Oxford Movement; the Twentieth Century.

Texts—J. R. H. Moorman: *A History of the Church in England* (Black).
H. Bettenson (ed.): *Documents of the Christian Church* (OUP).
Bede: *Ecclesiastical History* (Penguin).

Church History 3—Two hours a week.

The Modern Church. A general survey since the Reformation. The awakening of the social conscience; missionary and ecumenical movements; church polity, Canon Law.

Church History 4—(Distinction).

Continental Reformation and Counter-Reformation.

HEBREW

Hebrew 1—Three hours a week.

Grammar and translation: the first few chapters of Genesis.

A. B. Davidson: *An Introductory Hebrew Grammar* (24th or later ed.) (Clark).
A. R. S. Kennedy, (ed.): *The Book of Ruth, Hebrew Text* (SPCK).

Hebrew 2—(Distinction*) Two hours a week.

Selected prose extracts.

R. Kittel: *Biblia Hebraica* (4th ed.) P. Smith: *The Books of Samuel* (Scribners).

Hebrew 3—(Distinction.) One hour a week.

Selections from Psalms and Prophets.

DOGMATIC THEOLOGY

Dogmatics 1—Two hours a week.

(a) An outline of the Christian faith; Revelation, Scripture, the Creeds and the XXXIX Articles.

(b) The history of Christian doctrine especially up to 461. Stress is laid on the development of doctrine, theological ideas, contemporary thought and movements.

There will be set readings from the Fathers, and special attention given to the thought of St. Augustine.

Dogmatics 2—Two hours a week—(1963-64).

The Doctrine of God, Christ, the Holy Spirit, and the Trinity; the Doctrine of Man and Salvation.

Dogmatics 3—Two hours a week—(1961-62).

The doctrine of the Church, the Ministry and the Sacraments with special reference to the Anglican position and its relationship to others. Church and State. Modern theological thought.

*Distinction for the L.Th. (Hons.) course only.

Dogmatics 4—(Distinction).

Distinction classes will be offered as required, e.g., The Person and Work of Christ; The Person and Work of the Holy Spirit, Problems in Ecclesiology, Theology and Ethics.

(Notice of desire to do a distinction class should be given before the end of the preceeding term.)

The instruction will take the form of lectures, set readings, guided reading, discussions, preparation and reading of essays, and seminars. Text—E. J. Bicknell: The Thirty-nine Articles.

LITURGICS

Liturgics 1—One hour a week.

Early Christian worship; Primitive Liturgics; Later Liturgical development; the Breviary; Theology of Worship.

Liturgics 2—Two hours a week.

Sources of the English Prayer Book. History and analysis of the Tudor Books and the present rite.

Liturgics 3—One hour a week.

The Prayer Book in the Parish.

Liturgics 4—(Distinction).

PHILOSOPHY OF RELIGION

Philosophy of Religion 1*—Two hours a week.

Basic religious concepts.

Philosophy of Religion 2—Tu. and Th., at 2.30 p.m.

Primitive man and religion. Religious foundations of great civilizations of the past. Judaism, Mohammedanism, Christianity. Theories of religion. Christianity in a changing world.

Text Books—Noss: "Man's Religions". Cave Sydney: "Christianity and Some Living Religions of the East". Sorokin-Zimmerman-Galpin: "A Systematic Source Book in Rural Sociology". (Vol. I). Loughmead, Casserley: "The Retreat from Christianity." Geo. Galloway: "The Philosophy of Religion".

Philosophy of Religion 3*—Tu. and Th., at 8.30 a.m.

Psychology of Religion.

Text—Clark: The Psychology of Religion.

Philosophy of Religion 4—(Distinction).

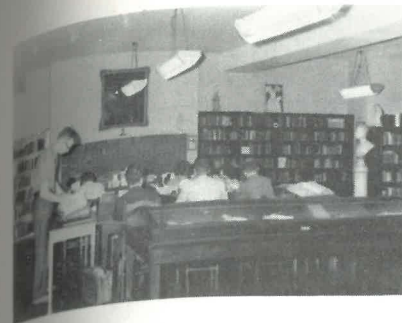
Mediaeval Philosophy.

PASTORALIA

This course is designed to cover all matters affecting the relationship between priest and people and questions involved in relating the eternal Gospel to contemporary human needs.

The Pastoralia Department attempts to complete essential theological learning with instruction and experience in communicating this learning.

*Either Philosophy of Religion 1 or 3 is required for the L.Th. If both are taken, one may be counted for distinction provided the student has as pre-requisite Philosophy 1 or Psychology 1.



Library



Manning Room

"Inside King's"

The life of a college invariably centres around its buildings and its rooms and meeting places.

The spiritual, social, academical, and physical life at King's is bound, in a greater extension of the students.

Gymnasium



Dining Room



The courses offered are so arranged as to enable every Divinity Student to complete the course in three years. The courses are distinguished solely by virtue of their specific content, and should not be confused with optional University courses for which credit is given. Every student preparing for the Ministry of the Church is required to take all courses.

Pastoralia 1—(Ceremonial 1) One hour a week.

Speech-training: the reading of the services and lessons.

Pastoralia 2—One hour a week during the second term.

Elements of Church Music.

Text—Horace Spence: Praises with Understanding (RSCM).

Pastoralia 3—One hour a week.

Conduct of the Services of the Church.

All students are required to possess a copy of the BCP (1959) and of the Hymn Book with tunes.

Pastoralia 4—One hour a week.

Parish administration; a consideration of the resources available.

Pastoralia 5—One hour a week.

Introduction to Pastoral relationships.

Pastoralia 6—One hour a week.

Composition of Sermons; the Theory and Practice of Preaching.

Pastoralia 7—

Religious education and Propaganda.

This course will be conducted by a GBRE lecturer.

Pastoralia 8—Taken in the same year as **Pastoralia 7**

The Parish and the Church Universal.

Pastoralia 9—Two hours a week.

Introduction to Moral Theology and Christian Social Ethics.

Pastoralia 10—Two hours a week.

Relevant insights of Depth Psychology.

Pastoralia 11—One afternoon a week.

Pastoral Counselling.

Pastoralia 12—

Tutorials and seminars for the discussion of field work and problems arising therefrom.

Additional study for a Distinction in **Pastoralia** may be taken with the approval and under the direction of the Professor of **Pastoralia**. This will include full attendance at a six-week residential summer course in clinical pastoral training.

(**Pastoralia 9** and **10** will be given in alternate years.)

SOCIOLOGY

Sociology 1—(See course in Arts Calendar).

THE ARCHBISHOP HACKENLEY RURAL LECTURESHIP

(A Diocesan Synod of Nova Scotia Foundation, with a supervisor appointed by the Synod and the Divinity Faculty and acting under the guidance of the Dean of Divinity).

This course is available to all students and priests and will consist of lectures on the Church's relation to the Rural Community, and seminars and conferences on the rural pastoral ministry, and the supervision of students working in rural parishes. This course will be integrated with the Diocesan Rural Training School.

TUITION FEES

The Tuition for students taking the whole of the Divinity Course will be \$150.00 per year. (See page 33.)

LIBRARY FEE

Divinity students who are not registered for any Arts courses must pay a Library fee of \$5.00 to King's College.

DEGREE OF BACHELOR OF DIVINITY

By agreement among all Anglican Theological Colleges in Canada, the Degree of Bachelor of Divinity is now awarded only by examination by the Board of Examiners of General Synod. Particulars concerning regulations for this Degree may be had upon application to the Registrar.

DIPLOMA OF ASSOCIATE OF KING'S COLLEGE (NOVA SCOTIA)

The Board of Governors of the University of King's College has set up a statute establishing a new diploma to encourage post-ordination studies for those of the clergy who are not eligible as candidates for the B.D., under the following conditions:

1. Possession of the Diploma will qualify the holder thereof to assume the title of "Associate of King's College (Nova Scotia)", [A.K.C. (N.S.)].
2. It is available to priests holding the L.Th. or S.Th. from King's College, and those priests licensed in the Maritime Dioceses holding either diploma or its equivalent.

For application form, syllabus, bibliographies and any other information concerning this Diploma, apply to the Registrar, King's College, Halifax, N. S.

SPECIAL FEES

For title S.Th., L.Th. or A.K.C.(N.S.)	\$ 12.00
For Degree of B.S.Litt.....	20.00
For degree of B.S.T.....	20.00
For degree of B.D.....	26.00
Special examinations, each paper.....	5.00
Examination at a special centre.....	5.00
For examination of A.K.C.(N.S.) (not returnable)	15.00
For degrees and diplomas conferred <i>in absentia</i>	10.00

INSTITUTE OF PASTORAL TRAINING

The organization of this Institute, in collaboration with Pine Hill Divinity Hall and the Divinity School of Acadia University, represents one of the newest projects in theological education on the Canadian scene. It is the objective of the Institute to bring pastors and theological students face to face with human misery as it exists both in and out of institutions, through courses in clinical pastoral education in both general and mental hospitals, reformatories and juvenile courts, homes for the aged, alcoholic treatment centres, and other social agencies.

For those students with a particular aptitude and interest, there will be opportunity for further training to become qualified teachers of these subjects in theological colleges, directors of clinical training courses, and institutional chaplains; also in certain cases to become experts in particular specialized fields, such as ministering to the mentally ill or alcoholics, where the Church may have a significant role to play in partnership with secular professions.

Other goals of the Institute include the production of teaching materials, the promotion of workshops, and the establishment of a first class library and reference centre at the Institute office.

School of Journalism

Of the Universities of

KING'S COLLEGE

SAINT MARY'S

MOUNT SAINT VINCENT COLLEGE

The school is located at King's College, and students from affiliated colleges meet in common classes.

Board of Governors:

Chairman—R. J. McCleave, Esq., B.A., LL.B.(Dal.), M.P.

Members—The Rev. Canon H. L. Puxley, M.A., D.D., (President of King's College).

The Very Rev. C. J. Fischer, S.J., S.Th.L. (President of St. Mary's).

Sister Francis d'Assisi, Ph.D., (President of Mount St. Vincent).

Frank W. Doyle, Esq., B.A. (Acadia).

Sister Alice Michael, M.A., Ph.D., (Mt. St. Vincent).

Secretary—Miss Mary Casey, B.A.

JOINT FACULTY

Director: G. N. Hancock, B.A., Dip. Journ.

Lecturers: Bruce Cochrane, B.Com.

H. R. Hatheway, B.A.

Ralph Morton, B.A., LL.B.

Sister Alice Michael, M.A., Ph. D.

Rev. Daniel Fogarty, S. J., M.A., Ph.D.

Derek Mann, Esq.

Special Lecturers: Drawn from professional media.

ENTRANCE REQUIREMENTS

Complete Junior matriculation; including English, French, Algebra, Geometry, and three from History, Physics, Chemistry, Biology, Trigonometry, Latin, Greek, German, Spanish. An average of 60 per cent is required, with no subject below 50.

REGISTRATION

Registration must be made at both the University and the School of Journalism.

ARTS—JOURNALISM COURSE

The courses leading to the B.A. degree and Diploma in Journalism extend over a five-year period if the student enters university with junior matriculation and is enrolled in a full arts course. The degree and diploma course is shortened by one year if senior matriculation requirements are met for the B.A. Degree on entrance.

Three communications subjects are offered in the years leading up to a full year of professional training in journalism and associated fields. These subjects are **Journalism 1** (elementary news writing and editing); **Communications 1** (a general introduction to all phases of radio and television writing, directing and producing), and **Public Relations 1** (a survey of the whole field). At least two of these subjects must be completed before commencing the professional year, which is devoted entirely to the communication arts. Journalism 1 is prerequisite.

Professional Training Year: Having completed basic training in the three main divisions of communications, students are able to decide whether to specialize in one of the three fields or to follow a general program. Normally the student will obtain the B.A. Degree before taking the professional year, but it is possible under some circumstances to take professional training prior to the final year in arts. A diploma will be awarded under this plan although the first three years in liberal arts are prerequisite.

This program includes specialized work in journalism, radio and television, and public relations, and appropriate courses may be selected from the curriculum for a minimum of seven complete courses in the entire program.

Practical work is given throughout the course, utilizing the school's own newsroom and radio studio as well as broadcasting stations and newspapers in the Atlantic Region.

NOTE—Studies recommended in the liberal arts program include English, History, Political Science, Geography, Business Economics, Social Psychology or Sociology, Philosophy or Religion. Students enrolled in the school are advised to discuss their arts program with their dean as well as with the director of the School of Journalism.

FEES

Tuition in Arts subjects payable to Dalhousie University at time of Registration. See pages 32-34.

Tuition in Journalism payable to King's College, each class to be determined. \$ 60.00

Diploma in Journalism \$ 10.00



Diction and Voice Production

EDWARD ROBERTS, A.R.C.M., Lecturer

KING'S COLLEGE

SPEECH THERAPY

TONE PRODUCTION DRAMA PUBLIC SPEAKING

PARLIAMENTARY PROCEDURE

PROSE POETRY

There are two terms of four months each. Sixteen lessons are given each term. First term begins Thursday, September 5th, 1963. Second term begins Thursday, January 2nd, 1964.

TUITION FEES

Private lessons, Adults, one hour lesson.....	\$65.00 per term
" " Juniors (18 & under) one hour.....	40.00 " "

SYLLABUS

Therapy. The correction of stammering, stuttering, lisping, and other faults.

Quality of Voice. The elimination of nasal, throaty or guttural tone, lack of tone, and voice strain.

Breathing. The development of diaphragmatic and easy breathing.

Pronunciation and Enunciation. Training in correct phrasing, emphasis, pauses and modulation.

Language. Study of the fitness of words, and smoothness of transition.

Rhetoric. The formal organization of an address.

THE MARITIME SCHOOL OF SOCIAL WORK

Incorporated 1941

In affiliation with the University of King's College and other Maritime Universities, the Maritime School of Social Work provides graduate education in Social Work leading to the Degree of Master of Social Work.

The School is governed by a Board of Trustees representing all parts of the Atlantic Region.

The Chairman of the Board of Trustees is Manuel I. Zive, Esq., Halifax, N. S.

The Director of the School is L. T. Hancock, Esq., M.A.

As The Maritime School of Social Work is the only training centre for professional Social Work east of Quebec City, it serves the entire Atlantic Region.

The curriculum of the School which consists of both practical and theoretical training, conforms to standards set by the Council on Social Work Education which is the accrediting body for Schools of Social Work on the North American continent. In addition to participating in classes, seminars, and discussion groups, each student spends a minimum of two days per week practising Social Work in an established social agency under the supervision of a specially trained instructor. In this way the student gains experience in applying theory to practice. The shortage of trained social work personnel is acute, and attractive opportunities await those who seek a profession concerned with the social, emotional, and economic problems of mankind.

THE ATLANTIC SUMMER SCHOOL
FOR
ADVANCED BUSINESS ADMINISTRATION

will hold its Tenth Session at
The University of King's College
between June 16th and July 19th, 1963

**Sponsored Jointly by the following Universities
and Colleges.**

Acadia, Dalhousie, King's College, Nova Scotia
Technical College, Saint Mary's, Mount Allison, Mem-
orial of Nfld, New Brunswick, Saint Francis Xavier,
Saint Dunstan's, Prince of Wales College and Saint
Joseph's.

ELEVENTH SESSION
EXECUTIVE DEVELOPMENT COURSE

FACULTY

- Prof. E. R. Livernash, M.A., Ph.D.** (of the Harvard Business School). "Human and Labour Relations"
- Prof. P. H. Thurston, B.A., M.S., D.B.A.** (of the Harvard Business School). "Administering Production Activities".
- Prof. H. T. Lewis, B.A., M.A., LL.D.** (of the Harvard Business School). "Business Policy".
- Prof. G. Donaldson, B.Com., M.A., M.B.A., D.C.S.** (of the Harvard Business School). "Cost and Financial Administration".
- Prof. R. A. Bauer, B.S., M.A., Ph.D.** (of the Harvard Business School). "A Behavioral Science Approach".

Scholarships and Prizes

All Scholarships and Prizes (except those awarded to Graduating Students and Prizes to Day Students) will be credited to the students' accounts and not paid in cash.

Further particulars and application forms may be obtained from the Registrar of King's College.

ARTS AND SCIENCE

An average of 65% must be made to retain scholarships.

Chancellors' Scholarships*

Established originally through the generosity of The Hon. Ray Lawson, O.B.E., LL.D., D.Cn.L., former Chancellor of the University, and continued by succeeding Chancellors, these entrance scholarships are offered each year to students of the Atlantic Provinces. They are of an annual value of \$400.

Living Endowment Scholarships*

Established by the Alumni Association, these entrance scholarships are of an annual value of \$400

King's Foundation Scholarships*

Established by the Board of Governors, these entrance scholarships are of an annual value of \$250.

Halifax-Dartmouth Area High School Entrance Scholarships*

A number of scholarships have been established by the University of King's College for students entering the University from the High Schools of the Halifax-Dartmouth area. These scholarships are of an annual value of \$125.

Winfield Memorial Entrance Scholarship—\$200

Established by Mrs. W. A. Winfield in memory of her husband. One scholarship of \$200, tenable for one year, will be awarded to the fully matriculated student entering college with the best general school record, which must include an average of not less than 65% in matriculation.

The Alumni Scholarship—\$200

A scholarship of \$200 is offered by the Alumni Association to the fully matriculated student of King's College School, Rothesay Collegiate School, Edgehill, Netherwood or Halifax Ladies College, who enters with the highest standing and remains in residence for one year. The winner of this scholarship must not hold any other scholarship.

* Tenable for four years from Grade XI or three years from Grade XII.

* Not tenable by a student who transfers to or affiliates with any Faculty other than Arts and Science.

Keating Trust Scholarships—\$125

Two scholarships of the value of \$125 each, tenable for one year, are awarded from a bequest to the College from the Rev. J. Lloyd Keating. These scholarships will be awarded to students entering College with complete matriculation and with outstanding marks in Science. These scholarships, according to the will of the donor, are intended to encourage students, and preferably Divinity students, in the study of chemistry and physics, and scholars will be required to take at least one class in physics or chemistry during the year in which they hold the scholarship.

The Halifax Rifles Centenary Scholarship—\$200

Established by the Halifax Rifles as an entrance scholarship. For particulars apply to the Registrar of King's College.

The Prince Scholarship—\$1000

Made available annually by a former graduate of the University in recognition of the pre-eminence in the spheres of education and community leadership of the late Dr. S. H. Prince, long associated with the University. This scholarship will be open to any student of African extraction, a native of Nova Scotia, who has completed Grade XI or XII and who wishes to proceed to University to study for a degree in the Faculty of Arts and Science.

Margaret and Wallace Towers Scholarship—\$600

A Scholarship of \$600 a year has been established by Mr. Donald R. Towers, of The Cheshire Academy, Connecticut, an alumnus of King's, in memory of his mother and father. This scholarship will be available to a student of high academic standing entering the University of King's College, Halifax, Nova Scotia, to study Arts, Science, or Journalism, who is a resident, or a descendent of residents, of Charlotte County, New Brunswick, or of Washington County, Maine. Failing any qualified applicant from these counties, the Scholarship will become available to a student resident anywhere outside the Maritime Provinces of Canada.

The winner of the scholarship will be allowed to retain it throughout his or her undergraduate course at King's College provided he maintains an average of 65% with no failure in any subject in the annual spring examinations.

I.O.D.E. Bursaries

The Provincial Chapter of Nova Scotia, I.O.D.E., will award a limited number of bursaries of from \$100 to \$200 to university students of satisfactory academic standing in need of financial assistance. First-year students will be given preference.

Applications for these bursaries should be sent to the Provincial Educational Secretary, I.O.D.E., 301 Spring Garden Road, Halifax, Nova Scotia, by June 1, 1963.

The Imperial Order Daughters of the Empire Bursary

As a part of a War Memorial, the I.O.D.E. offers annually in each Province of Canada one bursary for four years' study in Canadian Universities.

For these bursaries, only the sons and daughters of deceased or permanently disabled men and women of the services (Army, Navy, Air Force) are eligible.

The bursary shall be awarded to a candidate who meets the entrance requirements of the University of his or her choice.

The bursary is of value of \$1,600, i.e., \$400 a year for four years, provided that the holder passes the examinations of each year in the spring, or at latest, in the autumn of the same year.

For further particulars communicate with the I.O.D.E. Provincial Education Secretary, 301 Spring Garden Road, Halifax, Nova Scotia.

King's College Naval Bursary

In order to commemorate the unique and valuable relationship between the University of King's College and the Royal Canadian Navy during the Second World War, ships and establishments of the Atlantic Command have set up a Bursary to enable a student to attend King's.

Amount of Bursary—It is intended that the Bursary be sufficient to cover all College fees and the cost of books, i.e., approximately \$300 annually.

Qualifications for Applicants—Applicants who will be considered for this Bursary must meet these requirements.

They must be:

- (a) Children of either officers and men serving in the Royal Canadian Navy or retired from the R.C.N. on pension.
- (b) Acceptable to, or registered in, King's College. Transfer or failure will entail the withdrawal of the Bursary. Academic achievement and promise will be the first consideration in selecting a candidate. Purpose, industry and character are to be carefully weighed, together with the likelihood that the candidate will make good use of higher education to benefit not only himself but also his country.

Conditions of Award—The Bursary is awarded annually but it is intended to be tenable by the same student to the completion of his course at King's College provided that he makes acceptable progress. The Bursary will be withdrawn in the event of academic failure or withdrawal from King's College for any reason.

Please send enquiries or applications to:

**King's College Naval Bursary,
University of King's College,
Halifax, Nova Scotia.**

Deihl Bridgewater Bursary—\$250

To assist needy students of suitable standing, resident in the town of Bridgewater, or within six miles of the town. Bequeathed by the late Lena Ruth Deihl.

Walter Lawson Muir Bursary—\$175

To be awarded annually at the discretion of the Scholarship Committee either to a student entering college for the first time or to a student returning to college who won high scholastic standing in the previous year. Endowed by Mrs. W. L. Muir.

The United States Scholarship—\$500

Awarded annually by Friends of New York State Corporation, to the student who in the judgement of the Directors of the Corporation best exemplies an appreciation of the importance of good relationships between the people of the United States and Canada. "Applicants must be residents of the United States and should make application to the Registrar before May 15th.

In any year the scholarship may be divided among two or more students.

Imperial Oil Higher Education Award

Imperial Oil Limited offers annually free tuition and other compulsory fees to all children or wards of employees and annuitants who proceed to higher education courses. The courses may be taken at any Canadian University or other approved institution of higher learning. Each award is tenable for a maximum of four years. To be eligible a student must attain an average mark of 70% in the appropriate secondary school examinations in the subjects required for admittance to the approved institution. Further information and application forms may be obtained from the Secretary, Imperial Oil Education Awards Committee, 111 St. Clair Ave. W., Toronto 7, Ontario.

Redpath Sugar Scholarship

Establishment of a Redpath Sugar Scholarship for a son or daughter of a Maritime miner to study at a Maritime university was announced January 28th, 1959 from Montreal by W. J. McGregor, President of the Redpath Sugar Refinery. Selection will be based on need for assistance and on scholastic qualifications, Mr. McGregor said, and is in memory of men lost at Springhill.

Value of the scholarship is \$1,000 for two years' study towards a degree or diploma at a recognized university in the Maritimes. At the end of two years, additional assistance may be granted at the rate of \$500 annually if academic record warrants.

Selections will be made by a committee of three, none of whom is employed by the Redpath Sugar Refinery. Applications for the scholarship can be addressed to Bayard Goodday, Esq., P.O. Box 309, Halifax, N. S., or E. L. Spencer, Esq., P.O. Box 523, Saint John, N. B.

The President's Scholarships

Three scholarships of \$250 will be awarded to the students who make the highest average at the end of the first, second and third year examinations and hold no other scholarship.

The Stevenson Scholarship—\$120

Founded by the Rev. J. Stevenson, M.A., (sometime Professor of Mathematics), of the value of \$120 a year, tenable for two years, and open to matriculated students in the second year.

One scholarship will be awarded each year.

This Scholarship will be awarded to the student in the Second Year, registered at King's College, who makes the highest aggregate in the Christmas examinations, provided the student will have credit for at least nine subjects at the end of the session and is carrying not more than two subjects that may normally be taken in the First Year. This last requirement may be waived, on application of a student, if it conflicts with an approved course.

The Scholarship will not be awarded if the average mark is less than 65%.

The Scholarship will be credited in half-yearly instalments, provided always that the scholastic standard is maintained.

Alexandra Society Scholarship—\$200

An annual award offered by the Alexandra Society of King's College to a woman student who, having taken at least five subjects in her third year, has obtained the highest average (minimum 65%) with not less than 50% in any one subject; provided that she spend her fourth year in residence in Alexandra Hall and also provided that if the student obtaining the highest average is otherwise ineligible, the award shall be left to the discretion of the Scholarship Committee of the College.

Saint John University Women's Club Scholarship (Undergraduate)

The Saint John University Women's Club awards a scholarship of \$100 each year to a woman student entering her senior year in a Maritime University. The award is to be made to student from the City or County of Saint John, with consideration being given to both academic attainment and financial need. Applications are to be forwarded not later than April 1st to:

The Secretary,
Saint John University Women's Club,
Saint John High School,
Saint John, N. B.

The application must be accompanied by a letter from the Registrar attesting the scholarship standing of the candidate.

The Almon-Welsford Testimonial—\$30

The Honourable William J. Almon, Esq., M.D. (1816-1901) and his family endowed a prize to commemorate the gallant and loyal deeds of Major Augustus Frederick Welsford who died in the Crimean War (1855) and to encourage the study of Latin. The prize is awarded annually to the student in his first year of enrolment at King's who makes the highest mark in either Latin 1 or Latin 2, provided the mark is not less than 65%.

Bishop Binney Prize—\$20

This prize, which was founded by Mrs. Binney in memory of her husband, the late Bishop Binney, is given to the undergraduate with the best examination results at the end of the second year, *i.e.*, at least nine subjects towards the degree.

The Harry Crawford Memorial Prize—\$25

Offered annually by a friend in memory of Harry Crawford, son of Thomas H. and Elizabeth A. Crawford, Gagetown, N.B.; a student of this College, who died true to his King and his Country, April 14, 1915, while serving in the Canada Motor Cycle Corps.

The prize is awarded by the Faculty to the student completing the third year Arts course, of good character and academic standing, who in the opinion of the Faculty deserves it most.

Khaki Bursary—\$60

Awarded each year by vote of the Faculty, preference being given to the sons and daughters of the soldiers of the Great Wars. Written application must be made, showing claim for consideration.

The Binney Bursary—\$50

Founded in the year 1858, by Miss Binney, sister of the late Bishop Binney and daughter of the late Rev. Hibbert Binney, in memory of her father.

This scholarship is intended to aid students who may require assistance, and who shall have commended themselves by their exemplary conduct, although their abilities and achievements may not qualify them to be successful competitors for an open Scholarship.

The Jackson Bursary—\$25

Founded by the Rev. G.O. Cheese, M.A. (Oxon.), in memory of his former tutor, the late T. W. Jackson, M.A., of Worcester College, Oxford. Awarded each year by vote of the Faculty.

The McCawley Classical Scholarship—\$35

Established as a testimonial to the Rev. G. McCawley, D.D., on his retirement from the office of President.

Open to matriculated undergraduates who have completed their first year, having entered from either Grade XI or Grade XII.

The Henry D. deBlois English Prize—\$15

The late Rev. Henry D. deBlois, D.C.L., a graduate of King's College, left the sum of \$200 to the Governors of the College to establish a prize in English. Awarded to the student of the 3rd or 4th year in Arts or Science who submits the best essay on some subject relating to English Literature. For conditions, apply to the Registrar. All essays must be in the hands of the Registrar of King's College by February 15th.

The Beatrice E. Fry Memorial

Established by the Diocesan Board of the W.A. of the Diocese of Nova Scotia, in memory of Miss Beatrice E. Fry. To be awarded to the woman student (Anglican) of the College obtaining the highest mark of the year in English 2, provided that mark exceeds 65%.

Dr. M. A. B. Smith Prize—\$25

Established by a bequest of \$500 from the late Dr. M. A. B. Smith. Awarded to the student with the highest marks at the end of his second year with at least nine classes. In case of a tie preference will be given to a Divinity student.

Charles Cogswell Bursary—\$20

Charles Cogswell, Esq., M.D., made a donation of \$400 to the Governors of King's College, the object of the donation being "to promote the health of the students and encourage them in the prosecution of their studies".

The Lawson Prize—\$100

Established by The Hon. Ray Lawson, former Chancellor of the University, for the student who shows the greatest progress between the first and second year.

The Zaidee Horsfall Prize in Mathematics—\$10

Established as a memorial to the late Zaidee Horsfall, M.A., D.Cn.L. Awarded to the student who makes the highest mark in first year Mathematics.

The Akins Historial Prize—\$100

Founded by T. B. Akins, Esq., D.C.L., Barrister-at-Law and Commissioner of Public Records.

The award is made for the best original study in Canadian History submitted in competition.

Essays must be handed in, under a *nom de plume*, with the writer's name in an attached envelope, on or before the 1st day of April of the year concerned. Essays become the property of King's College.

The Governor General's Medal

Awarded to the candidate who obtains the highest standing in the examination for the B.A. or B.Sc. Degree. Preference will be given to an Honours Student.

The Rev. S. H. Prince Prize in Sociology

This prize was made available by a \$1,000 bequest under the Will of the late Dr. S. H. Prince for annual award to both Dalhousie and King's Students.

Burns Martin Memorial Prize—\$200

Established in 1962 by a graduate of the University in memory of Dr. Burns Martin, for many years Professor of English and College Librarian, to be awarded annually at *Encaenia*.

\$500 Scholarship

The University Women's Club of Halifax will offer a scholarship of the value of \$500 every second year, beginning in the autumn of 1964. This scholarship will be awarded to a woman graduate of Dalhousie University or King's College, to assist her in obtaining her M.A. or M.Sc. degree at any recognized graduate school. The candidate must hold a Bachelor's degree of sufficiently high standard to enter graduate school.

Application forms may be obtained from the office of the Dean of Women, Miss Christine Irvine at Shirreff Hall.

Applications should be returned to Miss Irvine not later than March 31, 1964.

The successful candidate will be notified on or before May 15, 1964.

The Canadian Federation Of University Women Fellowships

The Travelling Fellowship (\$2,500) and the Margaret McWilliams Fellowship (\$2,000) are open to any woman holding a degree from a Canadian University, whose domicile is in Canada (although she may be studying elsewhere at the date of application) and who wishes to do post-graduate study or research outside Canada. Preference will be given to candidates who have completed one or more years of graduate study and who have a definite course of study or research in view.

The Junior Fellowship (\$1,500) is open to any woman holding a degree from a Canadian University who is not more than 25 years of age at the time of award and whose domicile is in Canada. Preference will be given to students who have studied in only one University and who wish to continue their studies in another.

The Professional Fellowship (\$1,500) is open to any woman holding a degree from a Canadian University whose domicile is in Canada. Preference will be given to candidates who have completed one or more years of professional work and who wish to spend a year at an accredited Library School, College of Education, or similar professional school.

In addition, the C.F.U.W. Fellowship Committee is responsible for selecting Canadian women as candidates for the following International awards:

The American Association of University Women Educational Foundation announces two new Fellowships in the Natural Sciences:

1. Sarah Berliner Fellowship in Physics, Chemistry or Biology
2. Ida H. Hyde Fellowship in Euthenics or Eugenics

These Fellowships, open to women of any country represented in the International Federation of University Women, have a stipend of \$5,000 each, require a Doctorate in the field of research, and are unrestricted as to age or place of research.

The American Association of University Women Educational Foundation offers to women of other countries which are represented in the International Federation of University Women, thirty international fellowships of \$2,500 each, for study in the United States, and a few international fellowships for study in any country other than the fellow's own.

The International Federation of University Women Committee for the award of International Fellowships announces:

Five AAUW awards of \$2,500 each

The CFUW A. Vibert Douglas Fellowship of \$2,000

The IFUW Ida Smedley MacLean Fellowship of 850 pounds sterling

The IFUW Winnifred Cullis Fund Grants not exceeding 300 pounds sterling each.

The FUWI (Bombay Branch) grant approximately 370 pounds sterling.

Two NKAL (Denmark) grants approximately 200 pounds sterling.

These Fellowships are for research only and candidates must be full members of their national Federation of University Women.

Newnham College, Cambridge, offers the Ruth Holt Fellowship open to women of any nationality for research in the Natural Sciences. The value is 400 pounds sterling a year, together with free board and residence tenable for three years from October. Applicants are expected to have reached at least the standard of a research student completing her work for the Ph.D. degree.

IFUW applications must be completed by November 1st.

AAUW applications must be completed by December 1st.

Newnham College applications must be completed by January 1st.

CFUW applications must be completed by February 1st.

Canada may present a maximum of four candidates for the fellowships awarded by IFUW and four for those fellowships awarded by AAUW. Application forms may be obtained from:

Dr. May Smith,
Chairman, Fellowships Committee,
Canadian Federation of University Women,
2424 Crown Crescent,
Vancouver 8, B.C.

The Rhodes Scholarship

This scholarship is of the annual value of 400 pounds sterling. Before applying to the Secretary (Dr. C. B. Fergusson, 6 Jennings St., Halifax) of the Committee of Selection for the Province (which application must be made by November 10th), consult the Registrar, King's College.

The Imperial Order Daughters of the Empire Post-Graduate Overseas Scholarship

This scholarship was founded by the Imperial Order Daughters of the Empire as part of the war memorial of the Order. Nine are offered annually—one for each Province. They are of the value of \$2,000, are tenable for one year, and have been founded to enable students to carry on studies, at any university in the United Kingdom, in British and Imperial History, the economics and government of the Empire and Dominion or any subject vital to the interests of the Empire. For further information apply to the Head Office of the Order.

Commonwealth Scholarships

Under a Plan drawn up at a conference held in Oxford in 1959, each participating country of the Commonwealth offers a number of scholarships to students of other Commonwealth countries. These scholarships are mainly for graduate study and are tenable in the country making the offer. Awards are normally for two years and cover travelling, tuition fees, other university fees, and living allowance. For details of the awards offered by the various countries consult the Registrar's office or write to The Canadian Universities Foundation, 77 Metcalfe Street, Ottawa.

Rotary Foundation Fellowship

Open to graduate students for advanced study abroad. Available every second academic year, 1961, 1963, etc. Applications must be considered before August 1st of previous year. Information may be obtained from Rotary Clubs.

Imperial Oil Graduate Research Fellowships

Imperial Oil Limited in 1946 established for annual competition Graduate Research Fellowships, now five in number and having a potential value of \$4,800 each (\$1,600 a year for a maximum of three years.) Each fellowship may be supplemented by an annual amount of \$900 if the fellow continues his thesis work during the summer months. A fellow may not hold concurrently other awards which annually equal or exceed the value of the regular Imperial Oil payments (\$1,600).

The fellowships are open to any approved Canadian university and are offered for research leading to a Doctor's degree in the fields of Pure and Applied Natural and/or Exact Sciences, including Mathematics (3 fellowships), and Social Sciences and Humanities (2 fellowships). Nomination of students for the fellowships is made by the university—such nominations to be received by the Secretary, Imperial Oil Higher Education Awards Committee, Imperial Oil Limited, 111 St. Clair Ave. W., Toronto 7, not later than March 1st of each year.

DIVINITY

Owen Family Memorial Scholarships—Two of \$250

Established by Mr. and Mrs. D. M. Owen, in memory of the Owen Family, tenable for one year, but renewable, and open to applicants who are Nova Scotia born, and resident therein, and are or are about to become theological students at King's College, preference being given (1) to native residents of the Town of Lunenburg, and (2) to native residents of the County of Lunenburg.

Canon W. S. H. Morris Scholarship—\$1,500

This Scholarship has been founded by Robert H. Morris, M.D., of Boston in memory of his father, the Reverend Canon W. S. H. Morris, M.A., D.D., Kingsman, Scholar and Parish Priest in the Diocese of Nova Scotia for forty years.

The Scholarship may be awarded annually by the President and Divinity Faculty to the most deserving member of the present or recent graduating class of the Divinity School, who has been at King's at least two years, and who, in the opinion of the Faculty, would benefit from travel and/or study in Britain, the U.S.A. or some other area outside the Atlantic Provinces of Canada, provided he reaches a satisfactory standard. Applications, stating the use which the applicant expects to make of the Scholarship, must be submitted to the Dean of Divinity on or before January 8 of the applicant's graduating year. The recipient will be required to serve in the Atlantic Provinces for a minimum of three years after his return from abroad.

William Cogswell Scholarships

Open to students intending to work in the Diocese of Nova Scotia.

Scholarship (A): Under the direction of the Trustees of the William Cogswell Scholarship to be awarded to the student who passes a satisfactory examination and who takes his Divinity course at any recognized Divinity College of the Church of England in Canada best fitted, in the opinion of the Trustees, to serve the terms of the Trust, giving when possible preference to King's College.

Scholarship (B): Under the direction of the Faculty of Divinity of the University of King's College, Halifax, Nova Scotia, an entrance scholarship of \$200 or \$300 depending on quality of work submitted, will be awarded to the properly accredited student entering the Divinity School for the first time in September 1963, who stands highest in a special examination to be held on October 1st, 1963, provided he reaches a satisfactory standard. The recipient will be required to sign a statement promising to serve in the Diocese of Nova Scotia for a period at least as long as the period during which he holds the scholarship.

This examination will consist of two papers:

- (a) A paper on the content of the Old and New Testaments, and
- (b) A paper on A. H. McNeile's Introduction to the New Testament (revised edition by C. S. C. Williams) Oxford, 1953.

Awards will not necessarily be made every year.

The Daniel Hodgson Scholarship—\$240

Founded in 1883 by Edward J. Hodgson and the Reverend G. W. Hodgson in memory of their father Daniel Hodgson, who died about that time. This Scholarship of an annual value of \$60, tenable for four years, is for the purpose of encouraging students to take an Arts degree before entering upon the study prescribed for Holy Orders. Candidates, who must be residents of Prince Edward Island, shall file their applications and certificates of having passed the full Arts matriculation requirements before August 15th, and must not be over 24 years of age at that time. They must also satisfy the Diocesan Committee for Holy Orders as to their aptitude for the Ministry of the Church. At the end of each academic year the Scholar shall file with the Trustees a certificate from the President or Secretary of the University "that during the past year he has resided in College (or has been excused from such residence) and has attended the full Arts course in the College", together with a certificate that his moral conduct, his attention to his studies and his general conduct have been satisfactory to the Board of Governors.

Scholars who fail to comply with the foregoing conditions automatically forfeit the Scholarship, but in special cases the Bishop, on the representations of the Trustees, may restore a terminated Scholarship in whole or in part.

Order of the Eastern Star Scholarship—\$200

Three scholarships are to be awarded, primarily on the basis of financial need, to first year students who are preparing for the Christian ministry.

John Clark Wilson Memorial Bursaries—\$100 each

Established in 1947 by Miss Catherine R. Kaizer, in memory of John Clark Wilson. Two bursaries of \$100 each, tenable for one year. Awarded to Divinity students deemed worthy and in need of financial help.

Organ Scholarship—\$200

Awarded to a student qualified and willing to play the organ in the College Chapel (Casavant—2 manual pipe organ) at services throughout the year.

Glebe Scholarship

A scholarship of approximately \$100 is offered annually to students from Prince Edward Island, preference being given to Divinity students.

Application, accompanied by a certificate of character from the applicant's rector, must be sent to The Eastern Trust Company, Charlotte-town, P. E. I., on or before May 31st.

Moody Exhibition—\$100

The "Catherine L. Moody" Exhibition of \$50 a year for two years is awarded every two years to the student entering the second year preparing for Holy Orders, whose scholarship and exemplary conduct shall in the opinion of the Faculty, merit it. (Next award 1963).

The George Sherman Richards Proficiency Prize—\$120**In Memory of the Reverend Robert Norwood, D.D.**

The income from a fund of \$2,000 to be awarded annually to the Divinity student who gains the highest aggregate of marks at the end of his penultimate year, provided that in that year he takes the regular full course in Theology.

The Countess de Catanzaro Exhibition—\$100

The income from a fund of \$2,000 to be awarded by the Faculty to a Divinity student during his second year in college. The award will be made on the basis of character and need.

The McCawley Hebrew Prize—\$25

Open to all members of the University who are below the standing of M.A.

This prize is given out of the interest of a Trust Fund, the gift of the Rev. George McCawley, D.D., in the hands of the Society for the Propagation of the Gospel in Foreign Parts.

This prize will be awarded to the student who leads the class in Hebrew 2 and receives a recommendation from the professor of Hebrew.

Junior McCawley Hebrew Prize—\$25

With the accumulated unexpended income from the McCawley Hebrew Prize a fund has been set up establishing a second prize, to be awarded to the student standing highest in first year Hebrew.

Archdeacon Forsyth Prize—\$50

The Ven. Archdeacon D. Forsyth, D.C.L., of Chatham, N. B., who died in 1933, left to King's College \$1000 to provide an annual prize or scholarship, to be awarded to a Divinity student for proficiency in the study and knowledge of the original Greek of Holy Scripture. To be awarded on the combined results of Greek Testament 1 and 2.

Shatford Pastoral Theology Prize—\$40

Established by an anonymous donor, in memory of the late Rev. Canon Allan P. Shatford, O.B.E., D.C.L. Awarded annually for Pastoral Theology, under regulations of the Faculty of Divinity.

Laurie Memorial Scholarship

One or more scholarships of about \$200 each, founded in memory of Lieut.-Gen. Laurie, C.B., D.C.L., open to candidates for the Ministry, under the direction of the Trustees. Particulars may be had from the Registrar.

The Wiswell Trust Divinity Studentship—\$120

A. B. Wiswell, D.Cn.L., Hon Fell. (Vind.) of Halifax, N. S., in order to perpetuate the memory of the Wiswell Family, augmented a bequest from members of the family, thus providing a capital sum of \$2,500, the income from which is to assist Divinity students at King's College, who were born in Nova Scotia and who propose entering the ministry of the Anglican Church in Canada.

Prince Prize in Apologetics—\$60

Established by a bequest of the late Dr. S. H. Prince. Awarded every alternate year, at the discretion of the Faculty. (First award 1962-63).

Wiswell Missionary Bursary—\$200

Founded by Dr. A. B. Wiswell for help to a Divinity student who believes he has a call to the Mission Field either Overseas or in the Canadian West.

Preference will be given to a student who has given promise of the needed qualities and has taken his degree or is within a year of completing his Arts Course. If there is no student meeting the above requirements the award will be left to the discretion of the Divinity Faculty.

Clara E. Hyson Prize—\$5.00

Founded by Miss Clara E. Hyson and awarded each year on vote of the Faculty.

A. Stanley Walker Bursary—\$100

Awarded by the Alexandra Society of King's College. To be given annually to a Divinity student.

Johnson Family Memorial Bursary—\$60

Founded by the Misses Helen and Marguerite Johnson in memory of their parents, this bursary is to be awarded annually at the discretion of the President and Divinity Faculty to the Divinity student considered most worthy on grounds not only of scholarship, but also of financial need and of devotion to his vocation. Preference will be given to a student from the parish of St. Mark's, Halifax.

Divinity Grants

Grants to aid students in Divinity who require assistance are made by the Bishop of Nova Scotia, and by the Bishop of Fredericton. The holders of these must fulfill such conditions as the Bishops lay down and in every case attend a personal interview. For further particulars apply to the Registrar.

W. A. Grant—\$150

The Women's Auxiliary of the Anglican Church of Canada in the Diocese of Nova Scotia makes an annual grant of \$150 towards the expenses of Divinity Students who agree to work in the Diocese of Nova Scotia after ordination.

The Wallace Greek Testament Prize—\$50

A Book Prize established by the late Canon C. H. Wallace of Bristol, England, in memory of his father, Charles Hill Wallace, barrister, of Lincoln's Inn, who graduated at King's College in 1823, and died in England in 1845. Subject—Hebrews. Application to be made to the Registrar by March 1st.

Agnes W. Randall Bursary

Two bursaries of \$8.00 each will be given each year to the students in Theology who show the greatest diligence in their studies. An award will not be made twice to the same student.

Bennett-Cliff Memorial Prize

A prize of \$10.00 each year. Award to be at the discretion of the President.

Kenelm Eaton Memorial Scholarship—\$60

This scholarship is provided by the Synod of Nova Scotia as a memorial to The Hon. Captain Kenelm Edwin Eaton, B.Sc., L.Th., who made the supreme sacrifice while serving as a Chaplain in Italy, Aug. 31, 1944. For particulars apply to Registrar.

Dr. C. Pennyman Worsley Prize—\$100

A memorial to the late Dr. Worsley. To be used in alternate years for a prize in Church History.

Fenwick Vroom Exhibition—\$40

To be awarded to a Divinity Student at the discretion of the Faculty.

The Church Boys' League Bursary Fund

Students eligible for assistance from this Fund are those who have, at one time, been full-pledged members of any Parochial C. B. L. branch in Canada. Particulars are available from the Registrar.

The Reverend Canon R. A. Hiltz Memorial Bursaries

To be awarded to present or former members of the A.Y.P.A. who are in a full course of theology and in need of financial assistance.

Bursaries up to a total of \$300 each year.

Archbishop Owen Memorial Scholarships

A number of scholarships of \$300 each are awarded each year by the General Synod Committee concerned to students in their final year in Theology, who are ready to take up missionary work, either in Canada or overseas. Academic standing and financial need are taken into account in making the award.

Application should be made to the Dean of Divinity by November 1st each year.

The Florence Hickson Forrester Memorial Prize—\$100

The prize, presented in memory of the late Mrs. Forrester, by her husband, is to be awarded on Encaenia Day to the Divinity Student in his penultimate or final year who passes the best examination on the exegesis of the Greek text of St. Matthew, Chapters V-VII, provided always that the standard be sufficiently high.

Bibliography—T. W. Manson: *The Sayings of Jesus*, (SCM)

J. Jeremias: *The Sermon on the Mount*, (Athlone Press)

F. W. Beare: *The Earliest Records of Jesus*, (Blackwell)
pp. 52-69 and 95-98.

The Bullock Bursary—\$225

Established by C. A. B. Bullock of Halifax for the purpose of defraying the cost of maintenance and education of divinity students enrolled at King's College who were, before being so enrolled, residents of Halifax, and members of a Parish Church there, and who are unable to pay the cost of such maintenance and education.

The Harris Brothers Memorial—\$100

To be awarded at the beginning of each college year as a bursary to a student of Divinity at the University of King's College. The student shall be selected annually by the Divinity Faculty, preference being given to a needy student from Prince Edward Island, failing that, a needy student from the Parish of Parrsboro and failing that to any deserving student of Divinity at the said University.

The Carter Bursaries—\$160

Two bursaries of a value of \$160 each, established under the will of Beatrice B. Carter of Amherst, Nova Scotia, to be used to assist young men studying for the Ministry.

Royal Canadian Air Force Protestant Chapel Bursary—\$120

This Bursary, established in 1959 by endowment from collections taken in R. C. A. F. chapels, is awarded annually at the discretion of the Divinity Faculty to a bona fide ordinand, preference where possible being given to (a) ex-R.C.A.F. personnel, (b) children of R.C.A.F. or ex-R.C.A.F. personnel.

The Ott Reading Prize—\$25

Established by Dr. T. Gordon Ott. Awarded annually to a student of Divinity for the best reading of the Bible and the Services of the Church.

The Archdeacon Harrison Memorial Bursary—\$20

Established by Miss Elaine Harrison in memory of her father. To be awarded to a deserving and needy Divinity student, at the discretion of the Faculty.

St. Paul's Garrison Chapel Memorial Prize—\$20

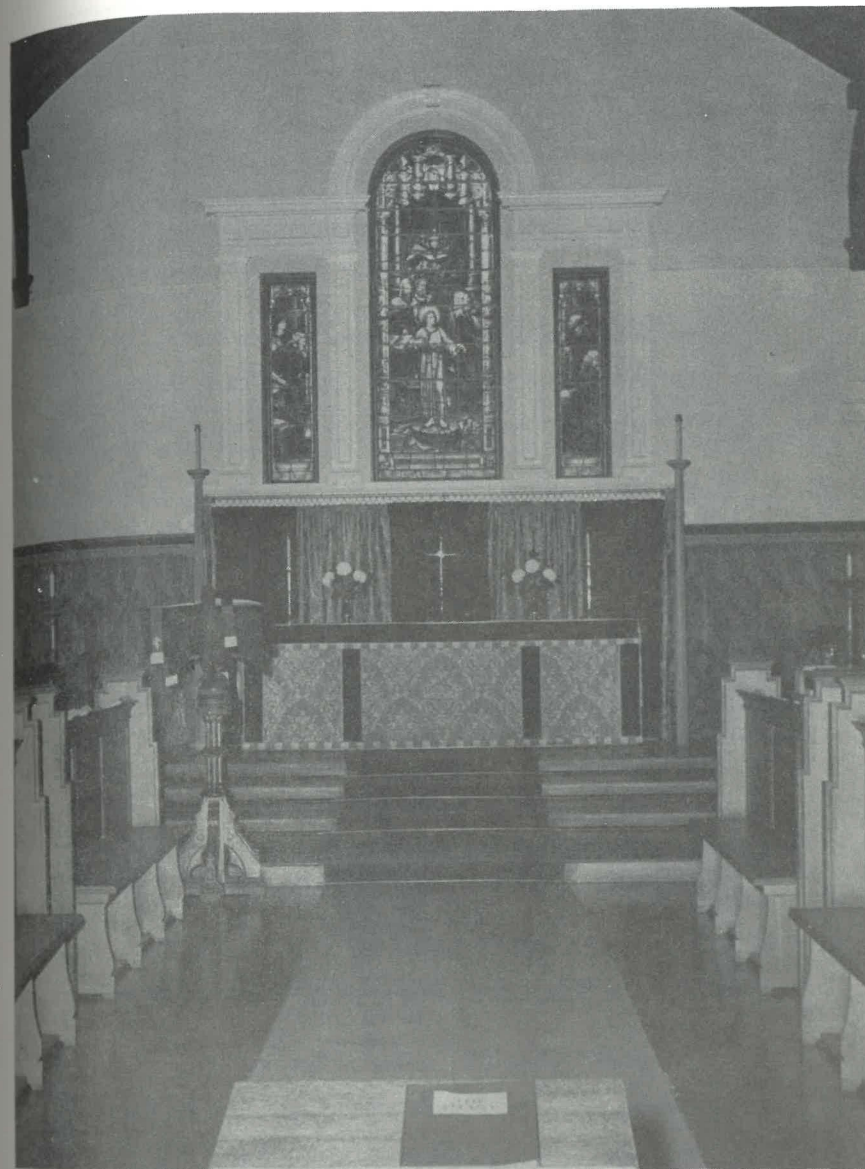
To be awarded to the Divinity student chosen by the Faculty to attend a Christmas Conference.

The Clarke Exhibition

An endowment has been established by the Reverend Canon W. J. Clarke of Kingston, New Brunswick, the first charge upon which shall be the provision of copies of "The Imitation of Christ" to members of each year's graduating Class in Divinity. The balance of the income each year is to be awarded by decision of the Divinity Faculty to a deserving Divinity Student for the coming year.

Archibald Kingston Memorial—\$100

Awarded annually by the Nova Scotia Diocesan W. A. on recommendation of the Divinity Faculty, to a needy Divinity Student.



KING'S CHAPEL—The window is in memory of Dr. C. E. Willetts, former President; the pavement lights in memory of Canon W. S. H. Morris, D.D., and the organ in memory of the Founder of the College, Bishop Chas. Inglis, first overseas Bishop of the Church of England.

GENERAL

Arthur L. Chase Memorial Students Loan Fund

Established by Mr. and Mrs. H. M. Chase as a memorial to their only child, who died while an undergraduate at King's College. Available to male students entering upon their third or fourth year. Application to be made in writing to the Registrar.

Edith Mabel Mason Memorial Students Loan Fund

Established by Alumni and friends as a memorial to the late Miss Edith Mabel Mason, M.A., a former Dean of Women and Professor of Modern Languages. Available to women students entering upon their third or fourth year. Application to be made in writing to the Registrar.

The Bob Walter Award

The highest award that can be given a Kingsman by his fellows, and emblematic of recognition of the winner as the best all-round student of the year. This award is given annually.

The Nixon Trophy

This award is given annually to the resident student who, in the opinion of his fellows, contributes most to residential life at King's.

The Prince Prize

Designed for the encouragement of effective public speaking. The recipient is chosen by adjudicators in an annual competition.

The Bissett Award

Awarded annually to the College's best all-round athlete.

The Arthur L. Chase Memorial Trophy

Presented annually to the student who has contributed most to debating.

The H. L. Puxley Award

Awarded annually to the College's best all-round woman athlete.

STUDENT ORGANIZATIONS

The Student Body

The chief business of the Student Body is transacted by the Council composed of the Senior, the Treasurer, the Secretary and a representative from each of the four classes. This Council meets weekly and has general supervision over the funds of the students' societies.

The "King's College Record"

The Record (founded 1878) is published by the undergraduates of the College, during the Academic year.

The associate editors and the business manager of the Record are elected at the first meeting of Michaelmas Term.

The Quinctilian Society

This is the College Debating Society, founded in 1845, which all students are expected to join. It was owing to the initiative of this society that the Maritime Intercollegiate Debating League was established.

The Haliburton

This Society was founded and incorporated by Act of Legislature in 1884. Its objective is the cultivation of a Canadian literature and the collecting of Canadian books and manuscripts and of books bearing upon Canadian history and literature. Membership is open to all members of the College and residents of the city of Halifax. Any literary man may be elected an honorary member.

The Students' Missionary Society

This Society was founded in 1890. Its object is to promote interest in missionary work, and to further the missionary work of the Church, especially in the Maritime Provinces. Membership is open to all members of the College. The annual meeting is held on St. Andrew's Day, or as near to it as possible.

The Archbishop Geoffrey Fisher Theological Society of the University of King's College

The Archbishop Geoffrey Fisher Theological Society of the University of King's College came into existence in 1957 as a result of a meeting of all Divinity Students at the University. The Divinity Students felt the need of an official organization which would represent the Divinity School, with powers to legislate on matters pertaining to the common life of the school.

Its aim is to promote fellowship among the members of the Divinity School and to stimulate discussion and participation in matters pertaining to the Divinity School of King's College. Membership is open to all students looking forward to Holy Orders.

The Senior Divinity Student is President, while the Secretary-Treasurer is elected from those members of the society who are working towards the Bachelor of Arts degree.

One of the endeavours of the society is to encourage representation by the College at theological student conferences held during the Christmas vacation each year.

King's College Glee and Dramatic Society

This Society was founded in 1931 to further interest in dramatics and choral work. It usually produces one three-act play and a major choral production each year. Membership is open to all members of the College.

King's College Amateur Athletic Association

The object of this association is the promotion of amateur sports of all kinds. The K.C.A.A.A. is affiliated with the Maritime Provinces Amateur Athletic Association, and is governed according to the rules of that association. Membership is open to all members of the College.

King's College Co-ed's Association

This club was organized in October, 1913. It is open to all women graduates and undergraduates of King's College. The primary object is to extend the interests of King's College among women.

King's College Co-ed's Amateur Athletic Association

The object of this association is the promotion of amateur sports of all kinds. The K.C. Co-ed A.A.A. is affiliated with the Maritime Provinces Womens' Amateur Athletic Association and is governed according to the rules of that association. Membership is open to all women students.

SOCIETIES CONNECTED WITH THE COLLEGE

Alumni Association of King's College

This Association, incorporated in 1847 by Act of the Legislature, consists of graduates and others whose object is the furtherance of the welfare of the University. The annual fee for membership is \$2.00.

The Association maintains an annual scholarship. (See page 57.)

The annual meeting of the Association is held the day before Encaenia.

The present officers of the Association are:

The Rev. H. Rhodes Cooper, B.A., B.S.Litt., Immediate Past President.

C. B. C. Cochran, Esq., B.Com., President, 56 Vernon Street, Halifax.

The Rev. L. F. Hatfield, M.A., L.Th., D.D., Vice-President, Dartmouth.

Mrs. D. C. Finck, M.A., Secretary.

G. H. Morrison, Esq., 94 Oxford Street, Halifax.

The Alexandra Society of King's College

This Society, which has branches all over the Maritime Provinces, was formed in Halifax in 1902 as the Women's Auxiliary to the Alumni, its object being to aid the Alumni in raising funds for the College. It maintains an annual scholarship (see page 69) and has instituted a fund to endow the Alexandra Chair of Divinity.

The present officers are:

President—Mrs. R. A. Pauley, 2148 Robie St., Halifax, N. S.

1st Vice-President—Mrs. J. F. Willis, 8 Tupper Grove, Halifax, N. S.

2nd Vice-President—Mrs. J. E. Lane, 40 Park Ave., East Saint John, N. B.

3rd Vice-President—Mrs. Jas. Harris, 39 Villa Ave., Charlottetown, P. E. I.

4th Vice-President—Mrs. Archibald McKeigan, Glace Bay, C. B.

5th Vice-President—Mrs. W. E. Jefferson, Granville Ferry, N. S.

Corresponding Secretary—Mrs. R. Ritchie, 5876 Spring Garden Road, Halifax, N. S.

Recording Secretary—Mrs. A. S. Carten, 18 Fraser St., Halifax, N. S.

Treasurer—Mrs. W. B. Brown, 205 Atlantic Street., Halifax, N. S.

Calendar Secretary—Mrs. D. A. McIvor, 15 Tulip St., Dartmouth, N. S.

FORM OF BEQUEST

I hereby give, devise and bequeath to the Board of Governors of the University of King's College, Halifax, Nova Scotia, the sum of

..... Dollars out of my estate without charge or deduction, and hereby direct my executors to pay the same to the Board of Governors of the University of King's College, and direct that the receipt of the Treasurer of the said University shall constitute and be a sufficient discharge therefor:

Said sum to be expended by said University for

(1) The payment of any indebtedness upon the buildings of said University or for additions thereto; or

(2) The providing of furnishings or other equipment for any of the buildings of said University; or

(3) The purchase of books for the library of said University; or

(4) The establishment of Scholarships and Bursaries in said University, at the discretion of the Board of Governors.

CLASSES OF INSTRUCTION

Biochemistry: see Chemistry.

Biology.

Chemistry.

Classics (Greek, Latin, Classical Literature, History, Philosophy).

Divinity (Church History, Philosophy and Psychology of Religion, New Testament Greek, Sociology).

Economics and Sociology.

Education.

Embryology: see Biology.

English Bible: see English.

English Language and Literature.

Fine Arts.

French: see Romance Languages.

Geology and Mineralogy.

German.

Greek: see Classics, Divinity (King's).

Hebrew.

History.

Latin: see Classics.

Mathematical Physics: see Physics.

Mathematics.

Music.

Oceanography.

Philosophy.

Physics (Physics, Mathematical Physics).

Physiology: see Biology.

Political Science.

Psychology.

Religious Studies.

Romance Languages (French, Spanish).

Russian.

Sociology: see Economics.

Spanish: see Romance Languages.

Zoology: see Biology.

CLASSES OF INSTRUCTION

Classes marked * are designed for those taking
Honours Courses
BIOLOGY

Professor	F. R. Hayes (Head of Dept.)
Associate Professor (Zoology)	D. Pelluet
Associate Professor (Botany)	K. E. von Maltzahn
Associate Professor (Oceanography)	E. H. Anthony
Assistant Professor (Zoology)	J. E. Phillips
Assistant Professor (Botany)	I. G. MacQuarrie
Assistant	Mary MacNutt

Demonstrators (1962-63): E. Batoosingh, E. F. Bleichert, W. N. Covert, E. A. Day, April-Anne Dockrill, Joanne E. Dowell, R. W. Doyle, Mrs. Scheir El-Basyouni, V. R. Gailunas, G. H. Green, K. Halcrow, B. T. Hargrave, Lorraine G. Laurence, H. C. Lilienfeld, B. Gail Mattinson, A. R. Measham, Judith M. Newman, S. Pearre, K. C. Shan, R. D. Thomasson, D. Verma, J. M. Waithaka, M. G. Young.

The program in Biology is designed to provide the student with a basic training in biological science which may serve as a preparation for graduate and professional work in Botany and Zoology, in Microbiology or Medicine. The training leads to professional opportunities which include teaching of natural sciences in secondary schools and universities, work in industrial and research laboratories, and research posts with Federal and Provincial Departments of Agriculture, Forestry, and Wild Life Management. It serves also as preparation for professional courses of Medicine and Dentistry and various technical posts in medical laboratories. A student looking forward to Biology in general or one of its branches as his major field of study is invited to consult the Department early in his course so that a proper plan can be worked out.

The following classes are offered every year: Biology 1, 2; Zoology 42, 44, 47, 49. The following classes are offered in 1963-64 and alternate years: Biology 7; Botany 23, 26, 27, 28; Microbiology 32; Zoology 46.

The classes marked * are intended for graduate and honour students. Others may be admitted in so far as space permits and provided marks were over 65 in previous biology classes. Applications should be made to the Department, and will be considered together during registration week.

1. General Biology.—Lect.: (1) Tu., Th. and S., at 8.30 a.m.; (2) Tu., Th., and S. at 9.30 a.m.; Lab.: M. or W. or F., 2.30 to 5.30 p.m.

I. G. MacQuarrie,
D. Pelluet, K. E. von Maltzahn.

Lectures are given in the Dunn Building and Chemistry theatre; laboratory work in the Forrest Building. An introductory class designed to illustrate the fundamental properties of living matter. The laboratory work consists of a study of representative plants and animals. The class is prerequisite to all other classes offered in the Department.

2. General Physiology.—Lect.: M., W. and F., at 8.30 a.m.; Lab.: M. 2.30-5.30 p.m. I. G. MacQuarrie, J. C. Phillips

An introduction to the chemistry and physics of life, with particular emphasis on energy relationships.

This course is intended to be a background for more advanced classes in experimental Biology.

*6. Comparative Biochemistry of Plants and Micro-organisms.—Lect.: M. at 10.30 a.m., F. at 9.30 a.m.; Lab.: Th. 2.30-5.30 p.m.

A. C. Neish, and G. H. N. Towers

Prerequisite.—Chemistry 4 or equivalent. Biochemistry 2 is recommended.

This class is limited to ten students.

7. The Chemical Constituents of Living Systems.—(1963-64). M. at 10.30 a.m. F. at 9.30 a.m., Lab.: Th. 2.30-5.30.

The course is intended to provide students with a knowledge of the compounds responsible for structure and function in living systems. The molecular structure, chemical and physical properties of the major groups of substances of biological origin will be dealt with, together with methods for their isolation, detection and study. Their occurrence and role in natural processes will be discussed.

Prerequisite—Chemistry 4.

*8. Cytology and Cellular Biology—(1964-65). Lect: M. and W. at 9.30 a.m.; Lab: Tu. 2.30-5.30 p.m. D. Pelluet and K. E. von Maltzahn

Instruction will include histo-chemical methods of investigating the properties of protoplasm, cells and tissues.

This class is limited to eight students.

Botany

22. Biology of the Lower Plants—(1964-65) Lect.: W. and F. at 8.30 a.m.; Lab.: W., 2.30-5.30 p.m. K. E. von Maltzahn

Morphology, cytology, development and distribution of the algae and fungi. Methods of cultivation.

23. Plant Morphogenesis—(1963-64) Lect.: W. and F. at 8.30 a.m. Lab.: W. 2.30-5.30 p.m. K. E. Von Maltzahn

An introduction to developmental plant anatomy and the experimental analysis of plant organization.

24. Physiography.—(1964-65). Lect.: Tu. and Th. at 10.30 a.m.; Lab. to be arranged. Occasional field trips. K. N. H. Greenidge

A lecture seminar and laboratory course. Introduction to the study of land forms. Influence of physiographic and meteorological factors on the development of vegetation.

25. Taxonomy of Vascular Plants.—(1964-65). Lect.: M. and W. at 9.30 a.m.; Lab.: M., 2.30-5.30 p.m. K. N. H. Greenidge

Introduction to the classification and systematic relationships of the vascular plants, with emphasis on the flora of the Atlantic Provinces.

26. Plant Physiology.—(1963-64). Lect.: M. 10.30 a.m., F. 9.30 a.m.; Lab.: Th. 2.30-5.30 p.m.
I. G. MacQuarrie

This course will include lectures and seminars on selected topics in Plant Physiology.

Organic Chemistry is a pre-requisite.

27. Phylogeny and Classification of the Flowering Plants.—(1963-64). Lect.: M. and W. at 9.30 a.m.; Lab. to be arranged.
K. N. H. Greenidge

Consideration of the evolutionary tendencies in the higher plants with emphasis on comparative anatomy and morphology. Laboratory work will include an introduction to plant histology.

Open to students who have taken Botany 25 or equivalent or to those students from other fields of concentration who satisfy the instructor they can participate.

28. Problems and Methods in Plant Geography.—(1963-64) Lect.: W. and F. at 10.30 a.m. Lab.: F. 2:30-5.30 p.m. Occasional weekend field trips.
K. N. H. Greenidge

The principal floristic and vegetational features of the earth with discussion of problems arising from this description and interpretation.

Microbiology

The two courses which follow, taken together, form an introduction to bacteria, yeast and moulds with particular reference to their function and relation to the environment. Special attention will be given to marine and aquatic habitats. Students beginning in either class will receive preliminary instruction in the techniques necessary to handle microorganisms. Work in Microbiology is given in collaboration with members of the staff of the Atlantic Regional Laboratory (National Research Council) and Technological Station (Fisheries Research Board).

***32 Physiology of Microorganisms.—(1963-64).** Lect.: W. and F. at 10.30 a.m.; Lab.: F. 2.30-5.30 p.m.
E. H. Anthony

Limited to ten students.

***33. Ecology of Microorganisms.—(1964-65).** Lect.: W. and F. at 10.30 a.m.; Lab.: F. 2.30-5.30 p.m.
E. H. Anthony

Limited to ten students.

Zoology

42. Comparative Vertebrate Anatomy.—Lect.: Tu. and Th. at 10.30 a.m.; Lab.: Tu. 2.30-5.30 p.m.
J. E. Phillips

43. Invertebrate Animals, Their Structure, Life History and Parasitic Relation to Man.—(1963-64). Lect.: M. and W. at 9.30 a.m.; Lab.: Tu. 2.30-5.30 p.m.
D. Pelluet

The course includes field and laboratory studies of the seashore fauna and an introduction to marine plankton.

***44 Evolution Genetics and Experimental Embryology.—Lect.:** M., W. and F. at 11.30 a.m.
D. Pelluet

This class consists of lectures on modern biological theories. Oral and written reports will be required of all students. Lectures are given in the Arts Building, Studley.

***45. Action of the Environment.—(1964-65).** Lect.: M. and W. at 11.30 a.m.; Lab.: W. 2.30-5.30 p.m.
F. R. Hayes

Physical and chemical basis for fertility of water and the energy cycle of the sea. Relation between the environment, especially the aquatic environment, and animal activity. Population growth and methods of its assessment. Limited to ten students.

***46. Comparative Animal Physiology.—(1963-64).** Lect.: M. and W. at 8.30 a.m.; Lab.: W. 2.30-5.30 p.m. J. E. Phillips, F. R. Hayes and Staff.

This course deals with the nervous system, sense organs, hormones, muscles, and other effector organs.

47. Influence of Chemical Agents on Living Organisms.—Lect.: W. at 1.30 p.m., F. at 11.30 a.m. Normal Lab.: W. 2.30-5.30 J. G. Aldous

Prerequisite.—Chemistry 4, Zoology 42, and consent of instructor.

A study will be made of chemical agents which affect various physiological and biochemical processes both in marine and land animals.

48. Human Physiology.—Lect. & Lab.: M. 1.30-5.30 p.m.; Lect.: F. at 1.30 p.m.
C. B. Weld

Prerequisite.—Chemistry 1, Physics 1.

A course dealing with the physico-chemical basis of the physiological processes in man.

This course is limited to 12 students.

Biological Seminar

Lectures and presentation of papers by members of the staff and senior students. All Honours and Graduate Students must participate.

Summer Courses

Students who satisfactorily complete any of the courses on the curriculum of the Marine Biological Laboratory, Woods Hole, Massachusetts, may, on the recommendation of the Department of Biology, present these courses for credit towards a degree.

CHEMISTRY

Professors W. J. Chute (Head of Dept.), W. R. Trost

Associate Professor D. E. Ryan

Assistant Professors K. E. Hayes, K. T. Leffek, W. E. Jones

P. L. Splitstone

A. A. Mills (Associate, Institute of Oceanography)

Lecturer G. A. Dauphinee

Laboratory Assistants:—(1962-63)—S. Baig, St. J. H. Blakeley, P. Bright Asore, C. S. M. Chow, S. D. Dauphinee, J. R. Dean, M. A. Evans, M. H. Freedman, T. E. C. Hogan, D. A. Horne, J. R. Jackson, W. W. MacDonald, W. G. MacIntyre, J. W. MacLean, D. T. Messervey, K. E. L. Matheson, T. R. Mason, J. P. Sherren, M. Sweeney, R. R. Weiler, A. L. Welch, M. H. Whitehead.

All students entering the University with the intention of specializing in Chemistry should consult the Head of the Department before registering.

1. General Chemistry.

All students registering for Chemistry 1 must consult the appropriate instructor in the Chemistry Building during the regular period.

Prerequisite.—Matriculation Chemistry or Physics or Mathematics.

1a. Lect.: M., W. and F. at 8.30 a.m.; Lab.: Tu. or W. or Th. 2.30-5.30 p.m.
D. A. Dauphinee, W. R. Trost

This section includes science students.

Text Book—Sienko and Plane: "Chemistry".

1b. Lect.: M., W. and F. at 10.30 a.m.; Lab.: Tu. or W. or Th. 2.30-5.30 p.m.
K. T. Leffek

This section includes Arts, Commerce, Pre-law and Engineering students.

Text Books—To be announced.

1c Lect.: T., Th. and S. at 10.30 a.m.; Lab.: T. or W. or Th. 2.30-5.30 p.m.

This section will include Pre-dental, Pre-medical, Nursing and Pharmacy students, and Dental Hygiene.

Text Book—Sienko and Plane: "Chemistry".

2. Elementary Physical and Analytical Chemistry.—Lect.: Tu. and Th. at 9.30 a.m.; Lab.: M. or F. 2.30-5.30 p.m.

D. E. Ryan, K. E. Hayes, P. L. Splitstone

Prerequisite.—Chemistry 1.

(a) This section includes Engineering, Engineering Physics, and Physics students.

Text Books—Willard, Furman and Bacon: "Quantitative Analysis". Daniels et al. II ed.—"Physical Chemistry".

(b) All other Chemistry 2 students should register in this section.

Text Books—Willard, Furman and Bacon: "Quantitative Analysis". Others to be announced.

The laboratory work of this class consists of exercises in quantitative analysis and physical chemistry.

*4. Organic Chemistry.—Lect. M. and W. at 9.30 a.m.; Lab.: W. or F. 2.30-5.30 p.m. or S. 9.30 a.m.-12.30 p.m.
W. J. Chute

Prerequisite.—Chemistry 1.

Text Books—Brewster and McEwen: "Organic Chemistry"; Adams and Johnson: "Laboratory Experiments in Organic Chemistry".

The following undergraduate classes are designed primarily for students intending to take Honours in Chemistry. Chemistry 5, 6, and 7 should be taken in the third year and Chemistry 8, 9, and 11 in the fourth year. (Others wishing to take any of these classes must obtain the consent of the instructor).

5. Physical Chemistry.—Lect.: M. and W. at 9.30 a.m.; Lab.: W. or F. 2.30-5.30 p.m.
K. E. Hayes

Prerequisite.—Chemistry 2, Mathematics 2, Physics 3.

Text Books—Daniels et al: "Experimental Physical Chemistry" VI ed. Others to be announced.

6. Qualitative Organic Analysis.—Lect.: M. and W. at 11.30 a.m. Lab.: M., 2.30 to 5.30 p.m.
W. J. Chute
G. A. Dauphinee

Prerequisite.—Chemistry 2 and 4.

This class is a continuation of Chemistry 4. The laboratory work will consist of the identification of organic compounds.

Text Books—Brewster and McEwen: "Organic Chemistry"; Shriner, Fuson and Curtin: "Identification of Organic Compounds".

7. Inorganic Quantitative and Instrumental Analysis.—Lect.: M. and W. at 10.30 a.m.; Lab.: Tu. and Th. 2.30-5.30 p.m.
D. E. Ryan

Prerequisite.—Chemistry 2.

Text Books—To be announced.

8. Structural Inorganic Chemistry.—Lectures and Lab.: five hours per week.
P. L. Splitstone

Prerequisite.—Chemistry 5 and 7.

Text Book—To be announced.

9. Quantum Chemistry and Orbital Theory.—Lect.: Tu. and Th. at 10.30 a.m.
W. R. Trost

Text Book—To be announced.

11. Undergraduate Research for Honours students.

Advanced classes are available to Honours and Graduate students, and others who satisfy the instructor that they are qualified.

Chemistry Seminar.—Meetings will be held in the Spring Term at which Honours and Graduate students will present papers on their research projects.

BIOCHEMISTRY

The class Biochemistry 2 may be offered as an undergraduate elective.

Students who intend to specialize in Biochemistry are invited to consult that Department for advice on the preparation of an adequate background for its study.

CLASSICS

Professor J. A. Doull (Head of Dept.)
Associate Professor M. A. Usmiani
Assistant Professor J. P. Atherton

Greek

Elementary Courses

The first three courses are primarily a study of the Greek language through grammar, composition and reading of texts. A student who obtains a first class in Greek A may be permitted to take Greek 2 as his second course.

Greek A.—M., Tu., Th. and F. at 2.30 p.m. J. A. Doull

This course is intended for beginners and those who have less than Matriculation Greek. It may be counted towards a degree if a second class in Greek has been satisfactorily completed.

Hillard and Botting: "Greek Primer" and Nairn and Nairn: "Greek Through Reading" will be used.

1. M., W. and F. at 9.30 a.m. M. A. Usmiani

Prerequisite.—Matriculation or Greek A.

Further reading from Nairn and Nairn: "Greek Through Reading"; Genner: "Selections from the Attic Orators"; Plato: "Ion". Grammar and composition.

2. M., W. and F. at 11.30 a.m. J. P. Atherton

Prerequisite.—Greek 1.

Plato: "Apology" and "Crito". Homer: "Iliad VI". Grammar and composition.

Intermediate Course

This is for students who have a sound elementary knowledge of Greek and wish to read further in Greek literature but may not be taking the Honours course in Classics.

3. (1963-64). Hours to be arranged. J. A. Doull

Prerequisite.—Greek 2.

The works studied in this course will vary from year to year, but will be three Greek plays or comparable reading in other poets.

A part of the reading for Greek 4 or 5 may sometimes be given at an intermediate level.

Advanced Courses

These are intended chiefly for Honours students.

*4. (1963-64). Hours to be arranged. J. P. Atherton

Reading in the Greek historians. Part of Herodotus and Thucydides will be studied. Students in this course will normally be expected to take Classical History 22 in the same year.

*5. (1964-65). Hours to be arranged. J. A. Doull

Readings in the Greek philosophers. Parts of Plato and Aristotle will be studied. Students in this course will normally be expected to take either Philosophy 5 or Philosophy 8 in the same year.

*6. (1963-64). Hours to be arranged. J. A. Doull

Greek poetry. Either some poet or some period in the history of Greek poetry will be studied.

*20. (1963-64). Hours to be arranged. The Department

Composition. See under Latin 20.

Latin

Elementary Courses

The first three courses are primarily a study of the Latin language through grammar, composition and the reading of texts. A student who obtains a first class in Latin A may be permitted to take Latin 2 as his second course.

Latin A.—M., W. and F. at 11.30 a.m. and Tu. at 2.30 p.m.
M. A. Usmiani

This course is intended for beginners and those who have less than Matriculation Latin. It may be counted towards a degree if a second class in Latin has been satisfactorily completed.

Books used will be Hettich and Maitland: "Latin Fundamentals" and "Vergil" by W. F. Jackson Knight.

1. M., W. and F. at 10.30 a.m. J. P. Atherton

Prerequisite.—Matriculation Latin or Latin A.

Cicero's "Pro Archia" and selections from Vergil's "Aeneid" will be read. Grammar and composition.

2. M., W. and F., at 10.30 a.m.

Prerequisite.—Senior Matriculation Latin or Latin 1.

Cicero's "De Senectute", selections from Catullus and from Horace's "Odes" will be read. Grammar and composition.

Intermediate Courses

These are for students who have a sound elementary knowledge of Latin and wish to read further in Latin literature, but may not be taking the Honours course in Classics.

3. (1964-65). M. and W. at 11.30 a.m. J. P. Atherton

Prerequisite.—Latin 2.

Reading in the Roman historians and philosophers. Parts of Cicero, Sallust, Seneca and Tacitus will be studied.

4. (1963-64). Tu. and Th. at 10.30 a.m. M. A. Usmiani

Prerequisite.—Latin 2.

Readings in the Latin poets. Selections from Lucretius, Propertius, Ovid and others will be read.

Advanced Courses

In these courses some authors or the history of some literary form will be studied at an advanced level. Under certain conditions students from other departments will be accepted who read the texts in an English version.

- *5. The History of Roman Satire. (1964-65). Tu. and Th. Hours to be arranged. M. A. Usmiani

Prerequisite.—Latin 3 or 4, which may, however, sometimes be taken in the same year.

- *6. Roman Comedy. (1964-65). Tu. and Th. Hours to be arranged. M. A. Usmiani

Prerequisite.—Latin 3 or 4, which may, however, sometimes be taken in the same year.

- *7. A Study of Vergil. (1963-64). Tu. and Th. Hours to be arranged. M. A. Usmiani, J. P. Atherton

Prerequisite.—Latin 3 or 4, which may, however, sometimes be taken in the same year.

- *8. The History of Roman Literature. (1963-64). Tu. and Th. Hours to be arranged. M. A. Usmiani

Prerequisite.—Latin 3 or 4, which may, however, sometimes be taken in the same year.

- *20. (1963-64). Hours to be arranged. The Department

Composition. All candidates for Honours in Classics will be expected to take this course, which is identical with Greek 20. Exercises in Greek and Latin composition will be done and unseen passages from various authors read.

Classical Literature, History and Philosophy

1. Classical Literature in Translation—Tu., Th. and S. at 9.30 a.m. J. A. Doull and J. P. Atherton

Lectures on a number of the chief works of Greek and Latin literature.

21. Greek History—(1963-64). Hours to be arranged. J. P. Atherton
Prerequisite.—History 2 or with approval of the instructor.

A seminar course in Greek history from 776 B.C. to the end of the Peloponnesian War.

22. Roman History.—(1964-65). Hours to be arranged. J. P. Atherton

Prerequisite.—History 2 or with the approval of the instructor.

A seminar course in Roman history from 133 B.C. to the death of Claudius.

3. Greek Philosophy (1964-65). J. A. Doull
Prerequisite—Philosophy 1

A Seminar on the history of Greek Philosophy.

7. Medieval Philosophy. J. A. Doull
Prerequisite—Philosophy 1

A Seminar on Patristic and Medieval Philosophy.

Towards meeting degree requirements the above history and philosophy classes may be counted as either Classics or as History or Philosophy courses.

ECONOMICS and SOCIOLOGY ‡

Economics

Professor J. F. Graham (Head of Dept.)
Assistant Professors A. M. Sinclair, F. F. Clairmonte
Lecturer D. P. Schafer

Students who think they might wish to take the Honours course in Economics are advised to consult the Department as early as possible in the years preceding the time of entry into the Honours course.

1. Principles of Economics*—M., W., F. at 10.30 a.m.; Tu., Th. and S. at 10.30 a.m. J. F. Graham, D. P. Schafer

2. Money, Banking and International Trade.—(1962-63). Tu., Th. and S. at 10.30 a.m. A. M. Sinclair

Prerequisite.—Economics 1.

*Students may have to be shifted between sections and should not, therefore make outside commitments for Saturday morning, which is part of the university's regular session.

‡Some changes in and additions to the courses listed here will be made. Students should check on these either with the Registrar's Office or with the Department before registering.

3. **Labour Economics.**—M., W., F. at 9.30 a.m. F. F. Clairmonte
5. **Public Finance.**—(1963-64). Tu. and Th. at 2.30 p.m. J. F. Graham
Prerequisite.—Economics 1.
6. **Economic Statistics.**—Lect.: M., W. and F. at 2.30 p.m. Lab.: Th., 3.30 to 5.30 p.m. J. F. Graham
Prerequisites.—Economics 1 and Mathematics 1.
7. **International Trade: Theory and Policy.**—(1963-64). M. and W. at 11.30 a.m.
Prerequisite—Economics 2.
Others may be admitted by special permission of the instructor.
8. **History of Economic Thought**—(1963-64). M., W. and F. at 9.30 a.m. D. P. Schafer
- ***Economics 10 and 11.**—These are the special classes for Honours students prescribed in the regulations governing Honours Courses.
12. **Economic Analysis I.**—(1963-64). M. and W. at 8.30 a.m. A. M. Sinclair
Prerequisite.—Economics 1.
This course will cover micro-economic theory.
13. **Economic Analysis II.**—(1964-65). M. and W. at 8.30 a.m. A. M. Sinclair
Prerequisite.—Economics 1.
This course will cover macro-economic theory.
14. **Comparative Economic Systems.**—(1963-64). Tu., Thu. and S. at 8.30 a.m. F. F. Clairmonte
Prerequisite.—Economics 1 and the consent of the instructor.
16. **Economics of Socialism.**—(1964-65). Tu., Th. and S. at 10.30 a.m. F. F. Clairmonte
Prerequisite.—Economics 1.
17. **Theory and Problems of Economic Development.**—(1964-65). M., W. and F. at 2.30 p.m. F. F. Clairmonte
Prerequisite.—Economics 1.
18. **Comparative Economic History of the U. S., Canada and the U.S.S.R.**—(1963-64). Tu., Th. and S. at 10.30 a.m. F. F. Clairmonte
Prerequisite.—Economics 1.
19. **World Economic Geography.**—(1963-64 and in alternate years). M., W. and F. at 10.30 a.m. (Same as Commerce 9). R. S. Cumming
Prerequisite.—Economics 1.
20. **Economic Development of Western Civilization and the History of Economic Thought.**—(1964-65 and in alternate years) M., W. and F. at 10.30 a.m. (Same as Commerce 10) R. S. Cumming

- *21. **Modern Capitalism.**—Tutorial Class. Admission is by permission of the instructor and is restricted to advanced students. Time to be arranged. (Same as Commerce 11). R. S. Cumming.
22. **Industries and Resources of North America with Economic History.**—Tutorial Class. Admission is by permission of the instructor and is restricted to advanced students. Time to be arranged. (Same as Commerce 13). R. S. Cumming
23. **The Regional Economy of Latin America.**—Tutorial Class. Admission is by permission of the instructor and is restricted to advanced students. Time to be arranged. (Same as Commerce 15). R. S. Cumming
24. **Economic History of Great Britain and the British Empire Overseas.**—Tutorial class. Admission is by permission of the instructor and is restricted to advanced students. (Same as Commerce 16). R. S. Cumming

Seminars For Honours and M.A. Students

All such students are required to take part in this seminar which will be held as occasion requires. The purpose of the seminar is to help students to select subjects for honours essays and M.A. theses and to provide systematic criticism of essays and theses in the course of their preparation. This seminar will not count as part of the course requirement for the degree.

Sociology and Anthropology

Associate Professor F. Uhler

1. Principles of Sociology.—M. and W. at 1.30-3.00 p.m.

Text Books—Elychinoy: "Society". J. E. Nordskog: "Social Change". E. F. Hunt and J. Karlin: "Society Today and Tomorrow".

Prerequisite.—Sociology 1 or Economics 1.

2. The Modern Community.—(1964-65). Tu. and Th. at 10.30 a.m.

(i) The Social Population, (ii) Ecological Organization, (iii) Demographic Differences, (iv) Maladjustments and Problems.

Text Books—B. R. Blishen: "Canadian Society". L. Nelson: "Community Structure and Change". C. Pilerson: "Population".

3. Social Institutions.—(1964-65). M. and W. at 11.30 a.m.

Prerequisite.—Sociology 1 or Economics 1.

The history, development, structure and function of the chief institutions of social life: domestic, economic, political, religious, educational and eleemosynary.

Text Books—Hertzler: "Social Institutions" (2nd Ed.). Snider: "Social Institutions, Origin, Growth and Interaction". Ginsberg, Hobhouse and Wheeler: "Social Institutions of the Simpler Peoples". Ballard: "Social Institutions".

*4. Christianity and Western Civilization.—(1963-64). Tu. and Th. at 10.30 a.m.

Prerequisite.—Sociology 1, or Economics 1, or History 1, or Church History 1.

A study of roots of western civilization in the social heritage of the past twenty centuries. Concepts of social man, and personality in pre-medieval, medieval and modern times. The Christian basis of modern man and society.

Text Books—Beatty and Johnson: "Heritage of Western Civilization" K. Mannheim: "Diagnoses of our Time." P. Sorokin: "The Crisis of our Age." H. Butterfield: "Christianity and History".

5. Sociological Theory.—(1964-65). Hours to be arranged.

Prerequisite.—Sociology 1.

Text Books—Lichtenberger: "Development of Social Theory". Sorokin: "Contemporary Social Theories".

Additional readings prescribed from Giddings, Bristol, Bogardus, Barnes and other writers on historical sociology.

6. Programme of Social Reconstruction in Our Age.—(1964-65). Tu. and Th. at 2.30 p.m.

Prerequisite.—Sociology 1 or Economics 1 or Philosophy 1 or Psychology 1.

Contemporary social and economic ideologies. Democratic and totalitarian attempts to solve social problems, conflicts between tradition and progress, and disturbances in the sphere of social values towards a new social philosophy.

Text Books—K. Mannheim: "Man and Society in an Age of Re-Construction." J. J. Maritain: "Christianity and Democracy." L. Mumford: "Faith for Living." H. E. Barnes: "Society in Transition."

7. Comparative Study of Religion.—(1963-64). Tu. and Th. at 2.30 p.m.

Prerequisite.—Sociology 1, or History 1.

Primitive man and religion. Religious foundations of great civilizations of the past. Judaism, Mohammedanism, Christianity. Theories of religion. Christianity in a changing world.

Texts Books—Noss: "Man's Religions." Cave Sydney: "Christianity and some living Religions of the East." Sorokin-Zimmerman-Galpin: "A Systematic Source Book in Rural Sociology." (Vol. 1). Loughmead, Casserley: "The Retreat from Christianity." Geo. Galloway: "The Philosophy of Religion."

8. Seminar in Sociological Methodology and Research.—(1964-65). M. at 7 p.m.

Prerequisite.—Sociology 1, or Economics 1.

Methods of Sociological Research. The Survey and its techniques. Construction of table and statistical methods. Practical Training.

Students who take this class will be required to register for Sociology 9 the following year. Students will be admitted to this course only with the permission of the instructor.

9. Advanced Seminar in Sociological Research.—(1965-66). M. at 7 p.m.

Prerequisite.—Sociology 8.

Field Work: Analysis of data. Research Report.

Texts Books—(for both Seminars). C. Luther Fry: "The Techniques of Social Investigation". H. W. Odum and K. Jocher: "An Introduction to Social Research". F. E. Croxton and D. J. Cowden: "Applied General Statistics".

Social Work

Students looking forward to professional training in the Maritime School of Social Work should include in their undergraduate curriculum a year's work in Political Science, Psychology, Economics and Sociology, as well as one or more second courses in the two latter fields. It is also recommended that students shall have completed a year's work in Biology. It is desirable that they possess a reading knowledge of French.

EDUCATION

Professor A. S. Mowat
Associate Professors..... R. D. H. Black, M. Gillett
Special Lecturers..... E. Anderson, M. Clough, Iris Bliss
C. F. Moir, F. Wall, DeWitt Dargie

1. General Principles of Education.—M., W. and F. at 10.30 a.m.

This is an introductory course in Education which provides for a comparative and historical treatment of recently developed educational theories and methods. Attention is also given to the analysis of some of the more important educational principles which give direction to recent development in Canadian Education.

This course may count towards the degree of B.A. or B.Sc., but may be taken only by students in their third or fourth year. It is also required course for candidates for Junior or Senior Diploma in Education and for the B.Ed. degree (if not already taken).

Text:—Biggs and Hunt—Psychological Foundations of Education.

1a. General Principles of Education.—(1963-64). For content see 1 above.

This class will meet in the evening at times to be arranged and is designated for teachers in service especially for those who require the course in order to improve their licence standing. Prospective students should consult Professor of Education. Regular students will not be admitted to this class. The class will open if a sufficient number of students enroll.

2. Theory and History of Education.—M. and W. at 8.30 a.m. and on F. at 8.30 a.m. when the Seminar does not meet.

A survey of the theories of the great educators and of the history of education in Europe and America, followed by a study of modern school systems in selected countries.

Text Book—Robert Ulich: "History of Educational Thought".

Reference Books—Curtis and Boulwood: "Short History of Educational Ideas".
"The Year Books of Education".

2a. Theory and History of Education.—(1964-65).

For content and text books see 2 above. This class will meet in the evenings at times to be arranged, and is designed for teachers in service especially for those who require the course in order to improve their license standing. Prospective students should consult the Professor of Education. Regular students will not be admitted to this class. The class will only be given if a sufficient number of students enroll.

This course may count as an elective credit towards the degree of B.A. or B.Sc., provided, however, that no student may be allowed to count more than one class in Education as such a credit.

3. Methods of Teaching Primary Grade to Grade VI.—M. and Th. at 4.00 p.m.

A detailed study of methods of instruction in Reading, Arithmetic and other subjects of the elementary school, based on the Course of Studies for Nova Scotian Schools.

Text Book—David Russell: "Children Learn to Read".

4. Methods of Teaching in Junior and Senior High School.—M., Tu., W. and Th. at 2.30 p.m. or at other times to be arranged.

A detailed study of methods of instruction in the subjects of the Junior and Senior High School based on the Course of Study for Nova Scotia. Lectures on method will be given covering six subjects, English, History, Geography, Mathematics, Science, and French. Students may attend lectures in all six but must select four upon which they will be examined.

Text Book—Each student is required to purchase at least one book from the following list:—B. C. Diltz: "The Sense of Wonder", E. M. Lewis: "Teaching History in Secondary Schools", G. H. Gopsill: "The Teaching of Geography", Butler and Wren: "The Teaching of Secondary Mathematics", G. S. Craig: "Science for the Elementary School Teacher", one of the Source Books for the Sciences compiled by Morholt, Brandwein and Joseph W. V. Kaulfers: "Modern Languages for Modern Schools".

5. Educational Psychology.—M., W. and F. at 9.30 a.m.

This exploratory course is designed to enable the student to acquire the facts, concepts, problem-solving procedures, attitudes, and a realistic concept in relation to his role as teacher, through a study of the nature of learning and of human abilities.

A required course for candidates for the Junior or Senior Diploma in Education.

Text Book—Herbert J. Klausmeier: "Learning and Human Abilities", "Educational Psychology".

6. Testing and Guidance.—Th. at 10.30 a.m., and F. 2.30 to 4.30 p.m.

This course will give some acquaintance with tests of Intelligence, Interests, Personality and School Subjects and their use in Guidance. It also includes elementary work on the theory of examinations and on statistical methods employed in educational experiment and investigation. Each member of this class will be required to carry out a piece of individual work in a restricted field of educational theory or practice.

Upon occasion during the first term this class will meet from 8.30 to 10.30 a.m. on Saturday instead of Friday afternoon.

Text Book—H. E. Garrett: "Testing for Teachers".

Reference Books—H. E. Garrett: "Statistics in Education and Psychology". Terman and Merrill: "Stanford-Binet Intelligence Scale".

7. Practical Teaching

Satisfactory work in this course is required of all candidates for the degree or diplomas in Education. No written examinations will be set, but marks will be awarded, having regard to ability in practical teaching and general suitability for the profession. Approximately one hundred hours of practice teaching are required.

Every candidate is required to undertake a period (normally one week) of Field Work in some selected area of the Province of Nova Scotia.

This class also includes visits to schools or other institutions.

Seminar.—F. at 8.30 a.m.

All students in Education are required to attend a weekly seminar on current educational topics, and to prepare, from time to time, reports which may serve as the basis of discussion.

8. Physical Education.

(a) Practical.—Th. 8.30 to 10.30 a.m.

Practice in and study of the methods of Physical Education with special reference to the course of study in Nova Scotia.

(b) Theory.—W. at 3.30 p.m.

Theory of Physical Training, Hygiene, Human Anatomy and Physiology.

9. School Art.—W. at 3.30 p.m., and Th. 9.00 to 11.00 a.m.

A course in art for schools with special reference to Nova Scotian conditions.

ENGLISH LANGUAGE AND LITERATURE‡

Professors A. R. Bevan (Head of Dept.), S. E. Sprott
Associate Professor M. G. Parks
Assistant Professors H. S. Whittier, R. M. Dawson, Ronald Hafter
Lecturers A. G. Cannon, Sydney Mendel
Special Lecturer J. B. Corston

English 1.—M., W. and F. at 11.30 a.m. and 1.30 p.m. The Dept.

For students taking a first year class in English for a degree in Arts, Science or Commerce.

An introduction to the critical reading of literature.

Text Books—Magalaner and Volpe: "Twelve Short Stories; Edith Hamilton: "Mythology"; Laurence Perrine: "Sound and Sense: An Introduction to Poetry".

Plays—(Shakespeare) "Macbeth"; (Synge) "The Playboy of the Western World"; (Miller) "Death of a Salesman".

Novels—(Dickens) "Great Expectations"; (Crane) "The Red Badge of Courage". (James) "The Turn of the Screw"; (Fitzgerald) "The Great Gatsby".

Handbook for Theme correction—Duncan Robertson: "Errors in Composition".

English 1A.—M., W. and F. at 11.30 a.m.

A pre-professional class with emphasis on composition and general reading; one of the two classes of first-year standing required for the Diploma of Engineering. Other pre-professional students may take this class if numbers permit. For special reasons the Department may permit or require other students to take English 1A in place of English 1, or *vice versa*.

Text Books—Richard Levin: "Tragedy". J. S. Mill: "On Liberty". Arnold: "Culture and Anarchy". Golding: "Lord of the Flies". Orwell: "1984". Strunk and White: "Elements of Style".

Either English 1 or English 1A may be taken for credit as an elective class by students who have credit for a compulsory first year class in English and who wish to receive additional instruction before taking English 2.

English 2.—M., W. and F. at 11.30 a.m.; Tu., Th. and S. at 10.30 a.m., M., W. and F. at 1.30 p.m. A. R. Bevan and the Department

Prerequisite.—English 1 or an equivalent class or senior matriculation with a mark of at least 65 per cent in English.

An historical study of English literature through the works of major writers: Chaucer; Shakespeare ("Henry IV" Part I, "Othello", "The Tempest"); Milton ("Paradise Lost"); Pope; E. Bronte ("Wuthering Heights"); Conrad ("Heart of Darkness"); T. S. Eliot ("The Waste Land"); Cary ("The Horse's Mouth").

Text Books—To be announced.

‡Changes or additions may be announced before the beginning of the term. Students should consult the Notice boards.

*3. Middle English.—(1964-65). M., W. and F. at 3.30 p.m.

R. M. Dawson

Prerequisite.—English 2. Primarily for Honours and Graduate Students.

English Language and Literature from 1100 to 1500, with emphasis on the poetry of Chaucer.

Texts—"Chaucer" (ed. Robinson). Other texts to be announced.

4. Poetry and Prose of the Romantic Period.—(1963-64). M., W. and F. at 8.30 a.m. H. S. Whittier

Prerequisite.—English 2.

An introduction to English Literature of the Romantic period.

The Pre-Romantic Poets; Wordsworth; Coleridge; Shelley; Keats; Byron; Scott; Hazlitt; Lamb; deQuincey.

Texts—Noyes: "English Romantic Poetry and Prose".

5. Victorian Literature.—(1963-64). M. and W. at 2.30 p.m.

C. L. Bennet

Prerequisite.—English 2.

Carlyle; Tennyson; Browning; Arnold; Dickens; Thackeray; Ruskin; Newman.

Text Books—Carlyle: "Sartor Resartus" (ed. MacMechan); "Prose of the Victorian Period" (ed. Buckler and Templeman). Verse anthology to be announced.

*6. Old English.—(1963-64). M., W., F. at 3.30 p.m. R. M. Dawson

Prerequisite.—English 2.

For Honours and Graduate students, and others by special permission.

Students intending to take this class should arrange for preparatory reading during the summer.

Texts—To be announced.

*7. Shakespeare and Elizabethan Drama.—(1963-64). Tu. and Th. at 4.30 p.m. S. E. Spratt

Prerequisite.—English 2.

Summer reading is desired, for which direction should be obtained from the instructor.

8. American Literature.—(1963-64). Tu. and Th. at 2.30 p.m.

Prerequisite.—English 2.

This is a survey course in American literature.

Summer reading is strongly urged. Students should obtain lists from the instructor in the spring.

Texts—Ellis, Pound and Spohn: "A College Book of American Literature, Briefer Course". (In Canada, W. J. Gage & Co., Toronto).

9. Drama.—(1963-64). M. and W. at 11.30 a.m. C. L. Bennet
Prerequisite.—English 2.

An historical survey of the development of drama, with emphasis on modern drama.

Text Book—Clark: "Chief Patterns of World Drama".

10. Canadian Literature.—(1964-65). Tu. and Th. at 2.30 p.m. M. G. Parks
Prerequisite.—English 2.

A survey course of English-Canadian literature with a few French-Canadian novels in translation. Some of the poets to be studied are Crawford, Roberts, Carman, Lampman, D. C. Scott, Pratt, F. R. Scott, A. J. M. Smith, Earle Birney, Klein, Page, and Layton; main prose writers and novelists are: T. C. Haliburton, Richardson, Kirby, Leacock, Grove, Ringuet, Day, Callaghan, Gabrielle Roy, MacLennan, Sinclair Ross, and Robertson Davies.

Summer reading of the required novels is recommended. The instructor will supply a list.

Texts—Klink and Watters: "Canadian Anthology".

11. Modern Poetry.—(1963-64). M. and W. at 10.30 a.m. John Fraser
Prerequisite.—English 2.

Texts—To be selected.

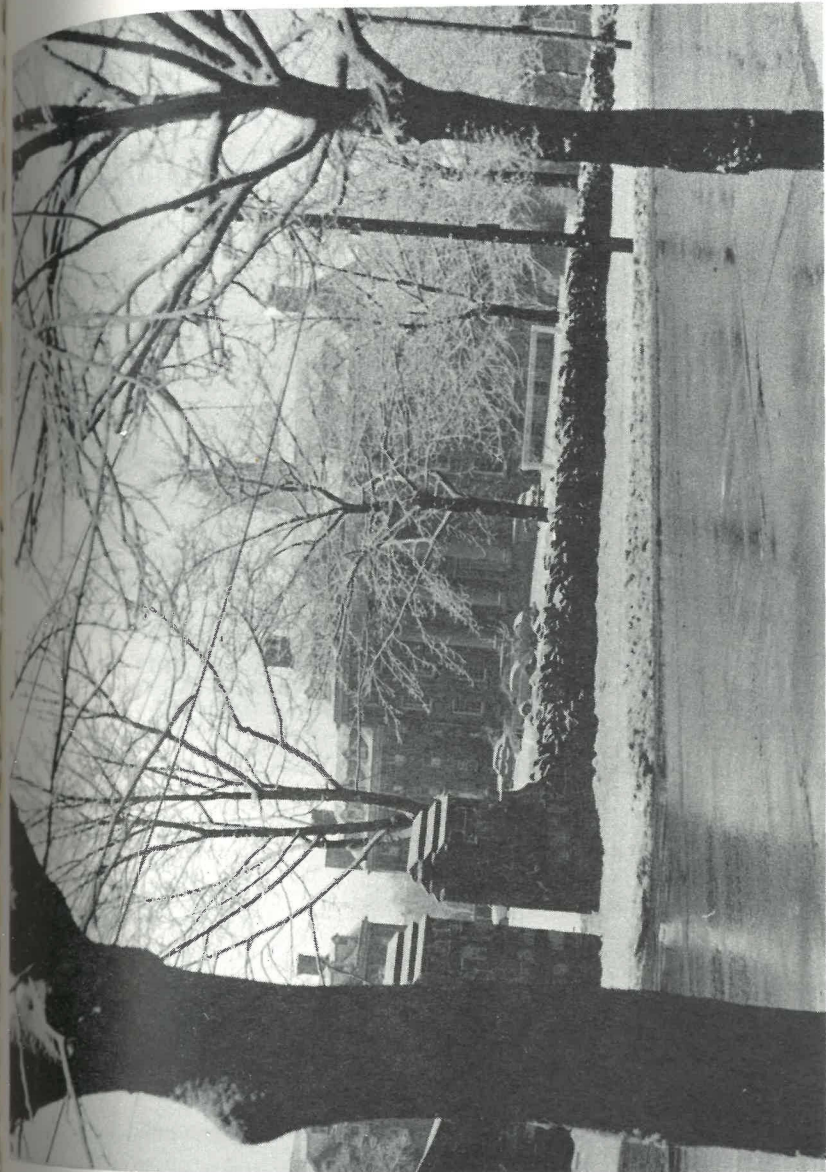
*12. The History, Theory and Practice of Literary Criticism.—(1964-65). Hours to be arranged. Ronald Hafter

For Honours and M.A. students: others by special permission only.

Text Books—To be announced.

13. History of the English Language.—(1963-64). M. and W. at 10.30 a.m. A. G. Cannon

Prerequisite.—English 2.



King's College in a Winter Setting

*14. Poetry and Prose of the English Renaissance.—(1963-64). Tu. and Th. at 11.30 a.m. M. G. Parks

Prerequisite.—English 2.

Text Books—More: "Utopia". Spenser: "The Shepherds Calendar and other Poems" (Everyman). "The Faerie Queene" (Everyman). White, Woolenstein and Quintana: "17th Century Verse and Prose: 1600-1660."

15. English Literature of the Restoration and Eighteenth Century. (1963-64). Tu. and Th. at 10.30 a.m. A. R. Bevan

Prerequisite.—English 2.

Students intending to take this course are advised to consult the instructor for summer reading.

Text Books—Shepard and Wood: "English Prose and Poetry, 1660-1800" (Houghton, Mifflin). Novels and plays of the period. Bredvold, McKillop, Whitney: "18th Century Poetry and Prose".

16. The English Novel to 1900.—(1963-64). M. and W. at 9.30 a.m. A. R. Bevan

Prerequisite.—English 2.

A detailed study of some of the major English novels. Summer reading is advisable.

*17. Advanced Seminar.—Members of the department are prepared to offer, to properly qualified students, the opportunity to make a special study of the works of a single author of whom a sufficient introductory knowledge has already been obtained. Admission will be strictly limited.

Prospective students should consult the instructor and arrange for summer reading.

*18. Old Norse.—Hours to be arranged.

Text Book—Gordon: "Introduction to Old Norse".

19. Scottish Literature from 1375 to the present.—(1963-64). Tu. and Th. at 4.30 p.m.

Prerequisite.—English 2.

Text Book—Gray: "Scottish Poetry from Barbour to James VI".

*20. Restoration and Early Eighteenth Century (Seminar).—(1963-64). A. R. Bevan

Prerequisite.—English 15.

Emphasis on works of Dryden, Swift and Pope.

21. Twentieth-Century Fiction.—(1964-65), M. and W. at 9.30 a.m. A. R. Bevan

Prerequisite.—English 2.

Selected works of Conrad, James, Joyce, Lawrence, Woolf, Forster, Huxley, Cary, Evelyn Waugh, Faulkner, Hemingway.

*22. Late Eighteenth and Early Nineteenth Century (Seminar).—
C. L. Bennet

Prerequisite.—English 4 or 15.

*23 Spenser and Milton.—(1963-64). Tu. and Th. at 3.30 p.m.
M. G. Parks

Prerequisite.—English 14.

Spenser: Selected shorter poems and special study of "The Faerie Queene"; Milton: Poetry and selected prose with emphasis on "Paradise Lost."

Texts—Spenser, "The Shepherd's Calendar and Other Poems" (Everyman Edition); "The Faerie Queene", (Everyman, 2 Vols.); Milton: "The Viking Portable" and "Selected Prose" (World Classics No. 293).

Students intending to take this class should read "The Faerie Queene" during the summer.

24. Literature and Society, 1880-1920. (Seminar).—(1964-65).
John Fraser

Prerequisite.—English 2.

A study of authors, movements and trends during the transition from Victorianism to modernism. Among the authors and subjects to be studied are Hardy, James, Pater, Kipling, the Nineties, Shaw, Wells, Conrad, Lawrence, and the literature of World War One.

Texts to be announced.

25. Shakespeare and Elizabethan Drama (Advanced Seminar)
S. E. Sproitt

Prerequisite.—English 7 or the equivalent.

26. English Bible.—W. and F. at 3.30 p.m. J. B. Corston

Prerequisite.—English 2 (which, with the consent of the Head of the Department and of the Lecturer, may be taken at the same time).

This course is an attempt to acquaint the student with the whole field of Biblical Literature as contained in the Old and the New Testaments. The Old Testament is approached as the record of the life of the Hebrew race as that life expressed itself in History, Law, Prophecy, Poetry, Devotion, Wisdom and Apocalypticism. The New Testament is studied as the literature of that new life movement which began in Christianity and issued in the preservation of Gospel records, historical data, and such literary work as bore witness to life, worship and teaching of the early Christian community.

For reference: J. A. Bewer: "The Literature of the Old Testament"; E. F. Scott: "The Literature of the New Testament"; T. W. Manson: "A Companion to the Bible"; M. E. Chase: "The Bible and the Common Reader".

Students should obtain summer reading lists from instructors.

FINE ARTS

Lecturer Donald C. Mackay

W. and F. at 4.30 p.m.

This class, consisting of about fifty illustrated lectures, will give an outline of the development of sculpture, painting, architecture and the minor arts, with an analysis of their structure and function. The introductory lectures will be related to Archaeology and the study of ancient art. The latter part of the term will be devoted chiefly to the evolution of creative art from the Renaissance to modern times. A well-equipped library and many valuable photographs, colour prints and engravings have been presented by the Carnegie Foundation for the use of members of this class.

Text Book—Gardner: "Art Through the Ages" (Harcourt, Brace).

French: see Romance Languages

GEOLOGY and MINERALOGY

Professor C. G. I. Friedlaender (Head of Department)
Associate Professors H. B. S. Cooke, G. C. Milligan
Assistant Professor M. J. Keen (Oceanography)
Special Lecturers D. H. Loring, J. E. Blanchard, A. E. Cameron

Student Assistants: F. Aumento, D. R. Grant, R. Foster, I. M. Harris, R. C. Parsons, R. M. Weeks, A. Cok, G. Kent, D. G. Lawrence, D. Mitchell, D. S. Mossman, J. E. Wyder.

Students majoring in Geology are advised that they should take as a minimum the following classes: 1, 2, 3, 16, 17, or 1, 2, 3, 4, 7.

1. General Geology.—Lect.: M., W. and F. at 9.30 a.m.; M., W. and F. 11.30 a.m. Lab.: M., Tu., W., Th. or F. at 2.30-5.30 p.m. M., W. and F. at 10 a.m. G. C. Milligan

Students in Engineering should register for the 9.30 a.m. section, except by special permission.

Introductory survey of main fields of geology and their relation to each other. Intended for those who are not pursuing geology as a career, as well as for those who are preparing for specialized classes. Emphasizes the geological events and processes evident in the world about us.

No prescribed text. Readings are assigned from suitable references in the department library.

2. Mineralogy.—Lect.: Tu. and Th. at 9.30 a.m. Lab.: Two periods per week—to be arranged. C. G. I. Friedlaender

Introduction to geometrical and physical crystallography.

Laboratory: Study of crystal models. Use of the polarising microscope. Evaluation of Debye-Scherrer diagrams.

3. Petrology.—Lect.: Tu. and Th. at 8.30 a.m. Lab.: W. afternoon.
C. G. I. Friedlaender.

Students taking Geology 3 (Petrology) should take Geology 2 (Mineralogy) concurrently.

Descriptive petrography of common rock types. Introduction to microscopic petrography. Attempt at interpretative petrology. Discussions of various classifications.

Laboratory: Practice in megascopic determination of rocks. Study of rock forming minerals and rocks with the microscope.

4. Ore-deposits.—(1963-64, and in alternate years). Lect.: Th. at 2.30-5.30 p.m.
G. C. Milligan

Case histories of selected mines and districts illustrating the type in a classification of ore deposits, and the factors controlling ore localization.

Prerequisite.—Geology 1.

6. Advanced Ore-deposits.—(1964-65, and alternate years.) Hours to be arranged.
G. C. Milligan

Controlling factors in deposition of hydrothermal ores as illustrated by selected districts and mines. Includes exercises in structural problems in mining and in sampling and valuation. Laboratory work in ore microscopy.

Prerequisite.—Geology 1, 2, 3 and 4. Chemistry 5, while not a prerequisite, is strongly recommended as preparation.

7. Structural Geology.—(1963-64, and in alternate years.)
G. C. Milligan

Seminar. Includes discussions of major structural problems such as orogeny, isostasy, geosynical development, granitization, etc.

Prerequisite.—Geology 1, 2, 3, 4, and 5.

8. Selected Topics in Canadian Geology.—(1964-65, and in alternate years). Hours to be arranged.
G. C. Milligan.

Prerequisite.—Geology 1.

9. Geochemistry.—(1964-65, and in alternate years.) Hours to be arranged.
C. G. I. Friedlaender

Abundance and distribution of elements in the lithosphere and special discussion of the preponderant elements and their nuclides.

10. Volcanoes and Volcanic Products.—(1964-65, and in alternate years.) Hours to be arranged.
C. G. I. Friedlaender

11. Metallurgy and Mineralogy.—Two hours per week and Lab. Hours to be arranged.
A. E. Cameron

Lecture and laboratory course on the evaluation of mineral deposits, and on the use of the physical and chemical properties of minerals in the recovery of metal from ore.

12. Earth Physics.—Lect.: 3 hours per week; Lab.: 3 hours per week. Hours to be arranged. Practical exercises may be assigned.
J. E. Blanchard

The origin, age and constitution of the Earth. The physical properties of rocks and minerals and the application of geophysics to geological problems.

Prerequisite.—Geology 1, Physics 1, Mathematics 2.

13. Sedimentology.—(1963-64). Lect.: two hours per week. Lab.: Three hours per week to be arranged.

Sedimentary processes and sedimentary rocks, with special reference to marine conditions on the ocean bottom.

14. Crystal Chemistry.—(1963-64, and in alternate years).
C. G. I. Friedlaender

15. Advanced Petrology.—(1963-64, and in alternate years). Hours to be arranged.
D. H. Loring, C. G. I. Friedlaender

Universal Stage Methods. Study of Petrofabrics. Modal Analysis.

16. Palaeontology.—Lect.: 2 hours per week. Lab.: 3 hours per week.
H. B. S. Cooke

17. Stratigraphy.—Lect.: 2 hours per week. Lab.: 3 hours per week.
H. B. S. Cooke

18. Introduction to Marine Geology. H. B. S. Cooke, M. J. Keen

First term: Basic elements of Geology. Lect. 2 hours per week and Lab.

Second term: Elements of Marine Geology. Lect. 2 hours per week. Practical Exercises by arrangement.

19. Pleistocene Geology.—(1963-64, and in alternate years.) Hours to be arranged.
H. B. S. Cooke

Geology Seminar. Presentation of papers by guest speakers, members of the staff and senior students.

Spring Course in Field Geology.

In cooperation with Acadia, Mount Allison, St. Francis Xavier and St. Mary's Universities, a field course of approximately two weeks' duration.

This course is held immediately following the conclusion of Spring examinations. Open to students majoring in Geology. A fee of \$40 for full board is payable upon arrival at Crystal Cliffs.

For registration, contact the Head of the Department before March.

GERMAN

Assistant Professors.....A. Roulston, P. H. Thomas
LecturerG. Josenhans

A Language Laboratory is at the disposal of the students enabling them to improve their spoken German. In certain classes Laboratory work is compulsory.

11. Complete First Course in German.—(1) M., W. and F. at 10.30 a.m.; (2) Tu., Th. and S. at 10.30 a.m.

This course is intended for those beginning the study of German. Its objectives are: to acquire a thorough knowledge of basic grammar and vocabulary leading to skill in reading, understanding, writing and speaking. This course may be counted as a credit towards a degree if a second class in German has been satisfactorily completed.

Students who have completed Grade XI or XII German, or have a credit in German from another institution, or come from a German-speaking country, are required to consult the German Department prior to registration.

12. A General Review of Basic German.—Tu., Th. and S. at 8.30 a.m.

Prerequisite.—Matriculation German, German 11 or equivalent.

This course is designed to meet the needs of students who, in the opinion of the Department are insufficiently prepared to take German.

The Department may also admit to the course certain students who are beginning the study of German.

13. Introduction to Literary and Conversational German.—M., W. and F. at 9.30 a.m.

Prerequisite.—Senior Matriculation German, or German 11 or 12. (Only students with final mark of 80 per cent or over are ordinarily admitted to this course.)

The objectives of the course are to develop the facility of reading, understanding, writing and speaking the German language. Special attention is given to the advanced reading of prose and poetry and to practical conversation exercises. The final examination of the academic year includes an oral test requiring preparation in the Language Laboratory.

14. Scientific German.—Tu., Th. at 10.30 a.m.

Prerequisite.—German 11 or 12, or equivalent reading knowledge.

This course will enable Science, Pre-medical, Pre-dental and Engineering students to use German scientific texts. It will not be counted as a credit towards an Arts degree in Section (i) Page 38.

21. German Civilization.—Tu. and Th. at 2.30 p.m.

Prerequisite.—German 13 or equivalent.

This course is to acquaint the student with outstanding trends and facts in the development of German thought, achievement and culture (philosophy, religion, life, scientific research, industrial progress, architecture, painting, sculpture, music, etc.) from the beginning of history to our present day.

22. Study of German Prose.—(1963-64, and alternate years).

Prerequisite.—German 13 or equivalent.

This course aims at introducing students to the most important German prose writers of the 19th and 20th centuries.

31. Johann Wolfgang von Goethe: His Writings, His Life, and His Time.—(1963-64 and alternate years).

Prerequisite.—German 21 or 22. The Department may also admit certain students of German 13 with a final mark of 80 per cent and over.

32. The Theatre in Germany.—(1964-65 and alternate years). M. and W. at 3.30 p.m.

Prerequisite.—German 21 or 22 or 13 with mark of 80%.

This course intends to acquaint the student with the outstanding stage plays of German theatre history, from the Middle Ages to 1933. Attention will be given to particularities of the traditional and modern theatre, to stage and acting techniques as well as to the expressionistic and experimental cinema between the two World Wars.

33. The Age of Enlightenment.—(1963-64 and alternate years).

Prerequisite.—German 21 or 22. The Department may also admit certain students of German 13 with a final mark of 80 per cent and over.

35. German Philosophy.—(1963-64 and alternate years).

Prerequisite.—German 21 or 22. The Department may also admit certain students of German 13 with a final mark of 80 per cent and over.

The Department reserves the right to cancel classes with an enrolment of five students or less, or to transform them into tutorial courses carrying full credit towards advanced degrees.

HEBREW

Special LecturersJ. B. Hardie, J. B. Hibbitts

1. For lecture hours see Pine Hill and King's College Divinity time tables.

HISTORY

Professors Peter B. Waite (Head of Dept.), G. E. Wilson
 Associate Professors..... C. B. Fergusson, G. R. MacLean
 Assistant Professors..... H. S. Granter, P. Burroughs, G. Rawlyk
 Special Lecturer J. P. Atherton

Students wishing to specialize in History should consider taking Honours (see page 40). Application for Honours work should be made before the beginning of the Third year. Programmes for Honours students are arranged in consultation with the Head of the Department.

1. History of Europe.—M., W. and F. at 8.30 a.m.; M., W. and F. at 9.30 a.m.

G. E. Wilson
G. R. MacLean.

A general survey of the political and social history of Europe from the fall of the Roman Empire to the First World War. Specific outside reading is required.

Text—Fergusson and Bruun, "European Civilization".

2. Ancient History.—Tu., Th. and S. at 8.30 a.m. H. S. Granter

Prerequisite.—History 1.

A survey of the ancient world with the emphasis on the development of Greek civilization and its spread throughout the Mediterranean.

3. History of England to 1714.—(1963-64 and in alternate years). M., W. and F. at 9.30 a.m. H. S. Granter

Prerequisite.—History 1.

Aims to describe the foundation of society and government in England after the Germanic settlement. Lays particular stress on the Tudor and Stuart periods.

4. History of Europe since 1815.—(1964-65, and in alternate years). Tu. and Th. at 9.30 a.m. G. E. Wilson

Prerequisite.—Two classes in History.

This class will be conducted partly by the seminar method, no text book being set, but readings will be assigned on various topics. Some knowledge of the bibliography of the period will be required.

5. History of Europe, 1715-1815.—(1963-64 and in alternate years). Tu. and Th. at 2.30 p.m. G. E. Wilson

Prerequisite.—Two classes in History.

This class will be conducted like History 4, readings being assigned on selected topics. The chief subjects for study will be the French Revolution and the career of Napoleon.

If possible students ought to read a narrative account of the period before taking the class. For this purpose the following books are recommended:

J. M. Thompson: "The French Revolution" and either A. Fournier: "Napoleon I" or J. H. Rose: "The Life of Napoleon I".

6. History of England since 1714.—(1964-65, and in alternate years). M., W. and F. at 9.30 a.m. H. S. Granter

Prerequisite.—History 1.

The theme of the course will be the development of modern industrial England, and the adaptation of its earlier institutions to a modern society. Emphasis will be given to the Nineteenth Century.

7. The Middle Ages.—(1963-64, and in alternate years). Tu. and Th. at 10.30 a.m. H. S. Granter

Prerequisite.—Two classes in History.

Describes the process of establishing a distinct type of society in Western Europe after the Germanic invasions and examines closely the principal features of mediaeval society when at its height in the thirteenth century.

8. History of Canada.—Tu. and Th. at 9.30 a.m. P. B. Waite

Prerequisite.—History 1.

The political, economic, and social history of Canada since the fifteenth century. Students should plan to acquaint themselves with European History in its relation to North America, and also with Canadian geography. Essays will be assigned. Preparatory summer reading might include W. J. Eccles: "Frontenac". D. G. Creighton: "John A. MacDonald" (2 vols.); Morris Bishop: "Champlain".

9. History of Canada 1837-1891.—Hours to be announced.

Prerequisite History 1, History 8.

A seminar course primarily for Honour and M. A. Students. Other students may be admitted at the discretion of the instructor.

Students will have opportunity for some training in the use of original records.

*10. Canadian History with special reference to Nova Scotia. A seminar course. C. B. Fergusson

For Honours and M.A. students. All others must obtain the consent of the Instructor.

Prerequisite.—History 8

11. History of the United States to 1865.—(1964-65). M., W. and F. at 9.30 a.m. P. Burroughs

Prerequisite.—History 1.

12. History of the United States since 1865.—(1963-64 and alternate years). M., W. and F. at 9.30 a.m. P. Burroughs

Prerequisite.—History 1.

- 13. History of Russia and the Soviet Union.**—M. and W. at 2.30 p.m. P. B. Waite
Prerequisite.—History 1.

A survey from the ninth century to the present. Some emphasis will be placed on the period since 1700. It is helpful to have read some Russian literature in translation, such as Turgenev's "Fathers and Sons", "On the Eve"; Tolstoy's "War and Peace", "Anna Karenina"; Dostoevsky's "Crime and Punishment"; Gorki's "My Childhood".

- 14. Renaissance and Reformation.**—(1963-64). M. and W. at 10.30 a.m. P. B. Waite
Prerequisite.—History 1.

The history of Europe from about 1400 - 1600.

Students will be expected to become familiar with the political, economic, religious, and intellectual aspects of the period. Essays will be assigned. This course is conducted in part by seminar method.

- 15. English Constitutional History.**—(1964-65, and in alternate years) Tu. and Th. at 10.30 a.m. P. Burroughs
Prerequisite.—History 1 and a course in English history.

- *16. A Period in Modern European History.**—M., W. at 10.30 a.m. G. E. Wilson
For Honours and M.A. Students.
Prerequisite.—History 1.

- *17. A Period in Nineteenth Century English History.**—Hours to be arranged. H. S. Granter
A seminar course for Honours and M. A. Students. Others may be admitted at the discretion of the instructor.

- *18. The American Revolution, 1763-1783.**—Hours to be arranged. P. Burroughs
Prerequisite.—History 1 and approval of instructor.
A seminar course.

- 19. History of Europe in the Twentieth Century.**—M., W. and F. at 10.30 a.m. G. R. MacLean
Prerequisite.—History 1.

A survey which includes two world wars, political developments within major powers, international relations between the wars, the conflict of ideologies and the Cold War in Europe. Substantial outside reading in addition to the text is a requirement. A course outline with reading references may be obtained by writing to the Instructor, care of the Department of History.

Text—H. Stuart Hughes: "Contemporary Europe, a History."

- 20. History of the British Empire and Commonwealth.**—(1963-64 and in alternate years). Tu. and Th. at 3.30 p.m. G. R. MacLean.
Prerequisite.—History 1.

A survey of the development of the British Empire, with emphasis on the economic and constitutional aspects of British colonial policy and practice.

- 21. Problems in Twentieth Century History.**—Hours to be arranged. G. R. MacLean

Prerequisite.—History 19 or an approved course in twentieth century European History.

This seminar is intended primarily for students in their junior and senior years, and will cover the causes of two world wars, the peace settlement, the growth of authoritarianism in the twentieth century, and selected problems in the national histories of the major European powers. Extensive outside reading in primary and secondary sources will be required, and students will prepare papers for presentation and discussion in the class. The instructor reserves the right to limit the number taking the course.

- 22. Greek History.**—(1963-64). Hours to be arranged J. P. Atherton

Prerequisite.—History 2 or with approval of instructor. A seminar course in Greek History from 776 B.C. to the end of the Peloponnesian war.

- 23. Roman History.**—(1964-65). Hours to be arranged. J. P. Atherton

Prerequisite.—History 2 or with approval of the instructor.

A seminar course in Roman History from 132 B.C. to the death of Claudius.

- 24. A History of Africa.**—Hours to be arranged.
Prerequisite.—History 1

Church History: see Divinity

LAW

Classes conducted by the Faculty of Law in the first year of the curriculum, and the examinations conducted in these subjects by the Faculty are recognized as qualifying for a degree in Arts when offered by a student taking the affiliated course in Law.

Mathematical Physics: see Physics

MATHEMATICS ‡

Professors.....J. G. Adshead (Head of Dept.) A. J. Tingley
A. D. MacDonald (Applied Math.)
Assistant Professors E. L. Heighton, H. D. Cochrane, N. Schlomiuk
Special LecturersJ. R. Baines, E. B. Mercer, Angela Birch-Jones
Dana Schlomiuk

- 1. Mathematical Analysis.**—Three hours per week. M., W. and F. at 8.30 and 9.30 and 10.30 a.m. See time table on notice boards at the beginning of term. E. L. Heighton, H. D. Cochrane, A. Birch-Jones, A. J. Tingley, J. R. Baines, B. Mercer, N. Schlomiuk.

Prerequisite.—Matriculation Algebra and Geometry.

Text Book—Allendoerfer and Oakley: "Fundamentals of Freshman Mathematics".
‡Changes or additions may be announced at the beginning of the academic year.

Algebra including coordinates, graphs, logarithms to any base, the binomial theorem, introduction to limits and slopes of curves, simple infinite series. Plane Trigonometry, including the addition theorems and theoretical solution of triangles. Introduction to plane analytic geometry.

2. Calculus.—(1) M., W. and F. at 8.30 a.m.; (2) M., W. and F. at 9.30 a.m.; (3) M., W., F. at 10.30 a.m. J. G. Adshead, H. D. Cochrane, E. B. Mercer, A. Schlomiuk, D. Schlomiuk

Prerequisite.—Mathematics 1, or Grade XII Algebra and Trigonometry with marks of at least 70 per cent in each. Students entering from Grade XII will be required to attend extra classes (probably on M., W and F. at 1.30 a.m. for about six weeks in order to do the necessary prerequisite work on analytic geometry and determinants). Times of these classes will be posted on notice board at the beginning of term.

Text Book—Taylor: "Calculus with Analytic Geometry", Chapters I-XIII, XVI, XVII.

THIRD YEAR CLASSES

Mathematics 2 is prerequisite for any of the following classes.

300. Advanced Calculus—M., W. and F. at 11.30 a.m. J. G. Adshead

Students who have not a mark of at least 60% in Mathematics 2, or its equivalent must obtain permission from the Department to take this class.

The real and complex number systems, Infinite series. Partial derivations and applications. Further work on integration (line, multiple, surface and contour integrals). Analytic function theory. Differential equations.

Text Books—Widder: "Advanced Calculus"; Burkhill: "Mathematical Analysis"; Hille: "Analytic Function Theory Part 1"

303. Algebra and Geometry—(1963-64). Tu. and Th. at 2.30 p.m. H. D. Cochrane

Text Books—Weiss: "Higher Algebra", MacDuffee: "Introduction to Abstract Algebra".

305. Geometry—M. and W. at 10.30 a.m.

Text Books—Osgood and Graustein "Plane and Solid Geometry". Widder: "Advanced Calculus". Osgood: "Advanced Calculus". Burington and Torrance: "Higher Mathematics".

306. Probability and Mathematical Statistics—(1964-65) M., W. and F. at 11.30 a.m.

Elementary probability theory will be introduced and numerous applications considered. Topics in mathematical statistics will include measures of central tendency and dispersion, significance tests, confidence intervals, analysis of variance, correlation, etc.

308E Tu., Th. and S. at 10.30.

This course will contain a revision and amplification of previous work, but it will also include some work that is given in Mathematics 300 and Mathematics 305, such as partial derivatives, multiple integrals, Taylor's theorem, approximate integration, etc. It is arranged for candidates for the Diploma in Engineering, and may not be offered for a degree in Arts or Science.

320 Applied Mathematics

Prerequisite—Mathematics 300 or its equivalent which may be taken at the same time.

Vectors, tensors, matrices and determinants—Contour integration and calculus of residues. Operational calculus and transform theory. Introduction to orthogonal function theory including Fourier Series.

350 Topology.—Third Year Course for Honours Students.

Topological spaces, compact, metric spaces, Dimension theory. Homotopy and extension problems. Homology and cohomology of complexes and topological spaces. Applications.

SENIOR CLASSES

These classes are intended for candidates for Honours in Mathematics, candidates for Honours in allied subjects (e.g., Physics), and for those wishing to take mathematical work in their third or fourth year in the ordinary course in Arts or Science. They are also designed to serve as introductory courses for those who may afterwards undertake post-graduate work in Mathematics. For 1963-64 Mathematics 31 and 32 are prerequisite. After this year Mathematics 300 will be prerequisite. Each class meets two hours per week, at times to be arranged.

401 Theory of Functions of a Real Variable

Elements of sets of points, convergence of double and simple series, summation of divergent series, Fourier series, Lebesgue integration.

Books—Widder: "Advanced Calculus". Valiron: "Theorie des fonctions". Knopp: "Unendliche Reihen", Hardy: "Divergent Series", Jeffery: "Theory of Functions of a real Variable". Works by Hardy and Rogosinski, Lebesgue, Saks, Newman, Graves and Burkill.

402 Theory of Functions of a Complex Variable.

Conformal representation, conjugate functions, Laplace's equation in two dimensions, Cauchy's theorem on contour integration, theory of residues, singularities, expansions of functions, elements of the theory of doubly periodic functions, multiform functions, various applications.

Books—Titchmarsh: "Theory of Functions". Valiron: "Theorie des fonctions". Knopp: "Funktionentheorie". MacRobert: "Functions of a Complex Variable". Works by Churchill, Ritt, Caratheodory, Whittaker and Watson, Pierpont, Bieberbach.

405. Differential Geometry and Tensor Analysis

406. Theory of Mathematical Statistics—M., W. and F. at 11.30 a.m.

Topics covered will include: axiomatic probability, probability distribution, the moment generating function, etc. Various sampling distributions will be derived. Non-parametric methods will be studied.

412 Differential Equations.

This course will take up the work of differential equations as begun in Mathematics 300 and will mainly discuss ordinary differential equations and, in particular, linear equations. Surface and volume integrals will be treated in more detail than in Mathematics 305, Laplace's equation will be discussed and solutions found of the equations of Bessel and Legendre.

Text Books—Piaggio: "Differential Equations". Ince: "Ordinary Differential Equations". Poole: "Linear Differential Equations". Agnew: "Differential Equations". MacRobert: "Spherical Harmonics". Hobson: "Spherical and Ellipsoidal Harmonics". Gray and Matthews: "Treatise on Bessel Functions".

420. Numerical Analysis.

Among the terms to be discussed will be, interpretation, finite differences, numerical solution of differential equations, error detection and correction, asymptotic expansions and programming, logic and operations of digital computers. Students will do computing with desk calculators and some time will be available for operation of the automatic digital computer.

421. Eigenvalue and Boundary Problems.

Eigenvalue problems in the theory of matrices and of difference, differential and integral equations. In particular, the sets of orthogonal functions generated by Sturm-Liouville problems will be treated together with their application to the solution of the partial differential equations of Physics.

422. Principle and Techniques of Applied Mathematics.

Linear vector spaces, spectral theory of operations, Green's theory and partial differential equations.

This course will be given only if a sufficient number of qualified students apply.

450. Functional Analysis.

Fourth year class for honours students.

MUSIC

LecturerD. F. Wilson

1. History and Appreciation of Music.—M., W. and F. at 9.30 a.m. and Sat. 11 a.m.

Intended primarily for the non-music student, the course provides an outline of the whole History of Music and a more detailed study of the principal composers and their works from Palestrina to Brahms.

Text—Nef: "An Outline of the History of Music"; Abraham: "Design in Music"; Leichentritt: "Music, History, and Ideas".

2. Music in the Twentieth Century.—M. and W. at 8.30 a.m.

Prerequisite.—Music 1.

Traces the growth of music from the Romantic period to the present, with a study of the leading composers of the 20th century and the various national schools—English, French, Russian and American.

Text—Salazar: "Music in Our Time".

OCEANOGRAPHY

Students interested in Courses bearing on Marine Science are referred to The Institute of Oceanography of Dalhousie University for a list of courses presented by various departments and providing good preparation for marine work, as well as introductory courses in Oceanography which may be offered electives by senior undergraduates.

Oceanography 1. Synoptic and Dynamic Oceanography.—Lect.: Tu. and Th. at 9.30 a.m. N. J. Campbell, R. W. Trites

Prerequisite.—Mathematics 2 and two Science Classes.

This class is required of all graduate students in Oceanography. It may be taken as an elective only, by Senior undergraduates. Topics will include a survey of the oceans and oceanic circulation, physical properties of sea water, distribution of temperature and salinity, energy budgets and capacity to produce life currents, waves, tides and eddy diffusion.

BIOLOGY DEPARTMENT

Botany 22.—Biology of Lower Plants.

Microbiology 32 and 33.—Physiology and Ecology of marine and aquatic micro-organisms.

Zoology 43.—Marine invertebrates.

Zoology 45.—The marine and aquatic environment.

CHEMISTRY DEPARTMENT

Chemistry 115.—Geochemistry.

GEOLOGY DEPARTMENT

Geology 9.—Geochemistry.

Geology 12.—Earth Physics.

Geology 13.—Sedimentation.

Geology 18.—Introduction to Marine Geology.

PHYSICS DEPARTMENT

Physics 49.—Wave Propagation.

Physics 43.—Geophysics.

Physics 57.—Fluid Mechanics.

PHILOSOPHY

Professor F. H. Page
Associate Professors..... R. H. Vingoe, I. A. MacLennan

1. **An Introduction To Philosophy.**—Tu., Th. and S. at 9.30 a.m.
I. A. MacLennan

Students are strongly urged to take this class as early as possible in their course, preferably in the first year.

Text Books—Plato: "Republic" (ed. Cornford). Russell: "The Problems of Philosophy".

2. **Logic.**—M. and W. at 11.30 a.m. R. H. Vingoe

An introduction to the principles of accurate reasoning. The main topics discussed are the relation of language to thought, and the various methods of deductive and inductive reasoning.

Text Book—Copi: "Introduction to Logic".

INTERMEDIATE CLASSES

20. **Philosophy of Religion I.**—(1964-65) Tu. and Th. at 8.30 a.m.
F. H. Page

Prerequisite.—Philosophy 1

An introduction to the philosophy of religion.

Reading—Trueblood: "Philosophy of Religion"; Paton: "The Modern Predicament"; Hutchison: "Faith, Reason and Existence"; Baillie: "Our Knowledge of God"; Baillie: "The Sense of the Presence of God"; Ninian Smart: "Historical Selections in Philosophy of Religion"; Flew and MacIntyre (eds.): "New Essays in Philosophical Theology"; Mitchell (ed.): "Faith and Logic".

21. **The History of Christian Theological Thought.**—(not offered 1963-64).
H. F. Woodhouse

22. **Philosophy of Religion II.**—(1963-64) T. and Th. at 8.30 a.m.
F. H. Page

Prerequisite.—Philosophy 1 or Psychology 1.

An introduction to the contemporary psychology of religion.

Reading—Clark: "The Psychology of Religion"; Allport: "The Individual and His Religion"; Argyle: "Religious Behaviour"; Bevan: "Symbolism and Belief"; Freud: "The Future of an Illusion"; James: "The Varieties of Religious Experience"; Thouless: "An Introduction to The Psychology of Religion"; Zaeher: "Mysticism, Sacred and Profane".

3. **Ethics.**—(1963-64). Hours to be arranged. I. A. MacLennan
Prerequisite.—Philosophy 1.

Reading—Aristotle: "Nicomachean Ethics"; Kant: "Moral Law"; Mill: "Utilitarianism"; Moore: "Principia Ethica"; Hare: "The Language of Ethics"; Ross: "The Right and The Good".

4. **Philosophy and Science.**—(1963-64). Tu. and Th. at 1.30 p.m.
R. H. Vingoe

Prerequisite.—Philosophy 1 or first year science complete. Others may be admitted with the permission of the instructor.

An introduction to the nature of the scientific method with some discussion of the historical relations between philosophy and science.

Text Books—Kenny: "A Philosopher Looks at Science"; Madden: "The Structure of Scientific Thought".

5. **Greek Philosophy from Thales to Aristotle.**—(1963-64) W. and R. H. Vingoe
F. at 1.30 p.m.

Prerequisite.—Philosophy 1.

A seminar class in which the students will read and discuss a selection of texts from the early Greek philosophers, and from Plato and Aristotle.

Text Books—Kirk and Raven: "The Presocratic Philosophers"; Kaufmann: "Philosophic Classics", Vol. I.

8. **Philosophy from Descartes to Kant.**—(not offered 1963-64).

9. **Philosophy from Kant to Dewey.**—(not offered 1963-64)

10. **Contemporary Philosophy.**—(1963-64) Hours to be arranged.
I. A. MacLennan

Prerequisite.—Philosophy 1.

A survey of contemporary European and British Philosophy. A seminar class to be held once a week.

Reading—To be announced.

ADVANCED CLASSES

- *11. **The Philosophy of Plato.**—(1964-65) R. H. Vingoe

- *12. **The Philosophy of Aristotle.**—(1963-64) Hours to be arranged.
R. H. Vingoe

For Honours and Graduate students but others may be admitted with the consent of the instructor.

Text Books—W. D. Ross: "Aristotle"; R. McKeon: "The Basic Works of Aristotle".

- *13. **The Philosophy of Kant.**—(1964-65) I. A. MacLennan

- *14. **Modern Symbolic Logic.**—(not offered 1963-64)
I. A. MacLennan

15. **Problems of the Self.**—(1963-64). M. and W. at 8.30 a.m.
F. H. Page

For senior and Honour students, but others may be admitted with the consent of the instructor.

An investigation, both historical and systematic, of the theories of mind and of the nature of the human personality.

Reading—Broad: "The Mind and Its Place in Nature"; Ellis: "The Idea of the Soul in Western Philosophy and Science"; Russell: "The Analysis of Mind"; Ryles: "The Concept of Mind"; Laslett: (ed.) "The Physical Basis of Mind"; Macmurray: "The Self as Agent"; Mounier: "Personalism"; Campbell: "Selfhood and Godhood", Part I.

Attention is drawn to the classes offered to qualified students by the Department of Classics in Ancient and Medieval Philosophy and by the Department of German in German Philosophy. These may be counted as philosophy classes to meet the grouping-requirements for the degree of B.A. (see page 38, Ordinary Course for Bachelor of Arts, section vi).

PHYSICS

Professors.....E. W. Guptill (Head of Department)
 W. J. Archibald, I. K. MacKenzie
 Associate Professors.....C. K. Hoyt, J. E. Blanchard
 Assistant Professors.....R. J. Balcombe, M. G. Calkin, M. H. Jericho
 R. H. March
 Assistant Professors (Oceanography).....M. J. Keen, C. R. Mann
 Research Associates.....G. F. O. Langstroth, D. J. Lawrence.
 McGregor Teaching Fellow.....D. Kiang

Demonstrators (1962-63)

D. R. Bruce, J. D. Cordes, C. Y. Cheung, C. K. Chew, P. Gacci, F. W. Jones, R. J. LeBlanc, R. E. McAllister, B. T. A. McKee, K. Moriarity, C. F. Tsang, F. Weil, A. Y. K. Loong, H. M. B. Bird, W. R. L. Clements, I. A. Fraser, J. D. Lavers, T. G. Lea, E. Lu, D. L. MacQuarrie, S. G. Moore, E. Nyland, J. S. Rogers, L. E. Wessman.

All students intending to take Honours Physics or Engineering Physics should consult with the head of the department before registering.

10. General Physics.—Lect: M., W. and F. at 10.30 a.m. Lab.: 3 hours per week. M., W. or F. 2.30-5.30 p.m. C. K. Hoyt

This is a general course in Physics designed primarily for students specializing in Arts, Pre-medicine, Pre-dentistry and Pharmacy.

Prerequisite.—Mathematics 1, which may, however, be taken at the same time.

Text Book—Saunders and Kirkpatrick: "College Physics".

11. Mechanics, Electricity and Magnetism.—Lect.: (1) M., W. and F. at 8.30 a.m. (2) Tu., Th. and S. at 10.30 a.m. Lab.: M., W., Th. or F. at 2.30-5.30 p.m. E. W. Guptill

This is a beginning course. Students who intend to take additional courses in Physics should register for Physics 11.

Text Book—Shortley and Williams: "Elements of Physics".

22. Sound, Heat and Light.—Lect.: M., W. and F. at 9.30 a.m. Lab.: M. or F. at 2.30-5.30 p.m. C. K. Hoyt

Physics 22 is a continuation of Physics 11 and is designed primarily for students intending to specialize in Engineering and Physics.

Prerequisite.—Physics 11 and Mathematics 1.

Text Book—Shortley and Williams: "Elements of Physics".

26. Electricity and Magnetism.—Lect.: Tu., Th. and S. at 8.30 a.m. Lab.: W. or F. at 2.30-5.30 p.m. I. K. MacKenzie
 Prerequisite.—Physics 11.

The course begins with a treatment of the response of simple linear circuits to stored energy and to sinusoidal inputs. Non-linear elements are then introduced and exemplified by both vacuum-tube and solid state devices. Linear behaviour of these devices is then carried to the point of treating simple amplifier circuits, including the cathode follower.

Magnetic fields and circuits are treated in relation to the behaviour of simple transformers, motors and generators.

Text Book—Hammond: "Electrical Engineering".

30. Intermediate Physics Laboratory.—Six hours per week.

R. J. Balcombe, G. F. O. Langstroth

Prerequisite.—Physics 26 and two additional classes in Physics (which may, however, be taken at the same time).

Students' attention is drawn to the fact that Physics 30 and 40 are laboratory courses which must be taken in conjunction with advanced undergraduate courses in Physics. The two courses together count as one credit.

32. Methods of Mathematical Physics.—M., W. and F. at 10.30 a.m. W. J. Archibald

Prerequisite.—Mathematics 2.

The purpose of this course is to assist students who have just completed a course in calculus to use their skills in solving problems in Physics. The course includes an introductory study of vector algebra; vector calculus; differential equations; partial differentiation; complex numbers; determinants and matrices; and Fourier Series and Transforms.

33. Earth Physics.—Two hours' lectures per week. J. E. Blanchard M. J. Keen

Prerequisite.—Physics 11 and Mathematics 2

A course designed to consider questions concerning the constitution of the earth. Some topics considered are: The earth's gravitational field, the earth's magnetic field and magnetic properties of rocks, seismology, radioactive age determinations, the thermal history of the earth.

34. Modern Physics.—Lect.: M., W. and F. at 8.30 a.m.

I. K. MacKenzie

Prerequisite.—Physics 22.

A survey course primarily for those not intending to take Honours in Physics or Engineering Physics. Special relativity is developed as a tool for understanding devices and theories of nuclear and atomic physics. Development in atomic physics and relative phenomena are traced from elementary kinetic theory through early quantum theory to modern wave mechanics. A number of modern developments such as transistors, masers, and nuclear power will be treated in terms of modern quantum theory.

Reference—Rogers: "Physics for the Inquiring Mind".

Text Book—Weidner and Seels: "Elementary Modern Physics".

36. **Electro-Magnetic Theory.**—Lect.: Tu., Th. and S. at 9.30 a.m.
Lab.: See Physics 11. J. E. Blanchard

Prerequisite.—Physics 26.

Maxwell's equations are derived from the experimental laws of electricity and magnetism. Boundary value problems in static and time dependent fields are solved. Physical optics are developed from electromagnetic theory.

Text Book—Reitz and Milford: "Foundations of Electromagnetic Theory".

39. **Intermediate Mechanics.**—Lect: M. and W. 9.30 a.m. D. Kiang

Prerequisite.—Mathematics 2 and one other Mathematics course.

Reference Books.—Becker: "Introduction to Theoretical Mechanics"; Lindsay: "Physical Mechanics"; Symon: "Mechanics"; Synge and Griffith: "Principles of Mechanics"

40. **Advanced Physics Laboratory.**—Six hours per week.
R. J. Balcombe, G. F. O. Langstroth

Prerequisite.—Physics 50.

43. **Geophysics.**—Two hours' lectures per week. J. E. Blanchard

Prerequisite.—Physics 26 and 32.

Boundary value problems in potential theory, quasi-static and time dependent electromagnetic field, static and dynamic elastic energy field, and heat flow.

47. **Thermodynamics and Statistical Mechanics.**—Lect.: M. and W.
at 10.30 a.m. R. J. Balcombe

Prerequisite.—Physics 26 and 32.

A study of the first and second laws of thermodynamics with applications of each: elementary kinetic theory of gases; Maxwell-Boltzmann statistics; thermodynamic probability; thermodynamic functions in terms of partition function; general discussion of Bose-Einstein and Fermi-Dirac statistics.

48. **Electronics.**—Three hours per week

G. F. O. Langstroth

Prerequisite.—Physics 26 and 32.

This course is intended to provide the background necessary for an understanding of the electron apparatus employed in Physics and Engineering Physics. Topics include the theory and properties of thermionic and semi-conductor devices. The methods of circuit analysis are illustrated by application to a variety of circuits of practical importance.

49. **Wave Propagation.**—Two hours per week. J. E. Blanchard

Prerequisite.—Physics 26 and 32.

This is a course designed for students in Engineering Physics. It includes a study of electromagnetic and acoustic waves. Special emphasis is given to the propagation of electromagnetic energy in wave guides and other boundary value problems in cylindrical co-ordinates.

51. **Solid State Physics.**—Two hours per week.

The course is organized in six parts: lattice statics; lattice dynamics; free electron theory of metals; band theory of solids; semi-conductors, and special topics. The last part of the course consists of a lecture or two on each of a sequence of topics such as imperfections, diffusion, superconductivity, etc.

52. **Introduction to Mathematical Physics.**—Two hours per week.
C. K. Hoyt.

Prerequisite.—Physics 31 and Physics 46.

Topics will include advanced classical dynamics of both discrete and continuous systems; relativity, elasticity and heat flow. Mathematical techniques used will include operator formalism, matrices, tensors, calculus of variations. Dynamics will be formulated so as to stress the similarities to quantum mechanics.

Text Book—Goldstein "Classical Mechanics".

53. **Exploration Geophysics.**—Two hours' lecture, three hours' lab.
per week. J. E. Blanchard

This course is designed for those registered in Engineering Physics and who intend to specialize in Geophysics.

54. **Quantum Physics** E. W. Guptill

Methods of non-relativistic mechanics are developed and applied to a variety of problems in atomic, molecular, solid state and nuclear physics.

Text Book.—Leighton: "Principles of Modern Physics".

55. **Nuclear Physics.**—Two hours per week. I. K. MacKenzie

The systematics of nuclear ground states are outlined and their relationship to an empirical mass formula demonstrated. Nuclear reactions at low energies are studied, and the method of partial wave analysis developed. The observations for nuclear decay schemes and reactions are related to current nuclear models.

Text Book—Preston: "Physics of the Nucleus".

56. **Advanced Electromagnetic Theory.**—Two hours per week.
M. G. Calkin.

Prerequisite.—Physics 52.

Topics included are: electrostatics, magnetostatics, Maxwell's equations, plane electromagnetic waves in free space and in a plasma, radiation from accelerated charges, special relativity.

Text Book—Jackson: "Classical Electrodynamics".

57. **Fluid Mechanics.**—One hour per week, additional lectures after Christmas. C. R. Mann.

An introduction to the basic theory of flow with emphasis on incompressible flow, stream functions, kinematics of flow, dynamics of flow, Navier-Stokes equations, vortex theory, laminar motion, turbulent motion, boundary layers.

58. **Quantum Theory.**—Two hours per week W. J. Archibald

Prerequisite.—Physics 52.

Text Book—Merzbacker "Quantum Mechanics".

59. **Statistical Mechanics.**—Two hours per week. W. J. Archibald
Prerequisite.—Physics 47 and 52.

61. **Astrophysics**

C. K. Hoyt.

The lectures will explore the relationship of physics to astronomy. Topics will include problems of stellar evolution, mechanisms of energy conversion, the physical environment of outer space, the origin of cosmic rays, and the physical methods available for astrophysical studies.

64. **Quantum Electronics.**—2 hours per week. G. F. O. Langstroth.

This course is intended to provide the student with an introduction to selected topics in quantum electronics at the graduate level. A typical selection might include molecular physics, nuclear magnetic resonance, electron paramagnetic resonance, masers, lasers, the Mossbauer effect, and the tunnel effect. Recent developments will be emphasized and reference will be made to original papers in the journals where feasible.

68. **Advanced Quantum Theory.**—M. G. Calkin.

Prerequisite.—Physics 58.

This course is intended for those interested in theoretical physics. At present the emphasis is on non-relativistic quantum field theory and many body problems.

Topics included are: Quantum theory of a system of force particles, interaction of the particles with one another and with an external field, scattering theory, phonons, electro-phonon interactions.

Seminar and Journal Club.

Lectures on recent developments in Physics; presentation of papers by senior students; reviews of current journals. All honours and Graduate students are required to attend.

POLITICAL SCIENCE

Professors.....J. H. Aitchison, J. M. Beck
Assistant Professor.....David Braybrooke

1. **Democratic Government and Politics.**—(1963-64). M., W. and F. at 1.30 p.m. Discussion group: F. at 1.30 p.m. and other times to be arranged.
J. H. Aitchison and Department

An introduction to the study of democratic government and politics with emphasis on the government of Canada.

2. **The Government of the United Kingdom and the United States.**—(1964-65). M. and W. at 11.30 a.m. (Also F. where necessary).

D. J. Heasman

Prerequisite.—Political Science 1.

3. **Comparative Government.**—(1963-64). M. and W. at 11.30 a.m. (Also F. where necessary.)

D. J. Heasman

Prerequisite.—Political Science 1.

A study of the political systems of the major countries of the world other than those covered in Political Science 1 and 2.

4. **Political Theory—From Plato to the end of the Middle Ages.**—(1964-65). Tu. and Th. at 2.30 p.m.
J. H. Aitchison.

5. **Political Theory—Sixteenth, Seventeenth and Eighteenth Centuries.**—(1963-64). Tu. and Th. at 2.30 p.m.
J. H. Aitchison

6. **The State and Economic Life.**—(1964-65) Hours to be arranged.
J. H. Aitchison

A study of the cases, nature and effects of state activity in the economic life of the nations of the British Commonwealth and of the United States in the nineteenth and twentieth centuries.

7. **The Constitution and Government of Canada.**—(1963-64). Hours to be arranged.
J. H. Aitchison

An intensive study of the Canadian federal system with special attention to certain selected problems.

8. **International Relations.**—(1963-64). M. and W. at 2.30 p.m.

11. **Political Theory in the Nineteenth and Twentieth Centuries.**—(1964-65). M. and W. at 3.30-5.00 p.m.

12. **Public Administration.**—(1964-65). M. and W. at 7.30-9 p.m.

14. **Political and Social Theory.**—(1963-64)

Arrangements have been made for students of Political Science to take the following courses given in the Law School, subject to the recommendation of the Department.

**Constitutional Law
Administrative Law
International Law
Municipal Law**

PSYCHOLOGY

Professor.....P. H. R. James (Head of Dept.)
Associate Professors.....H. D. Beach, W. H. Coons
Assistant Professors.....J. M. Stoyva, J. W. Clark, S. A. Rudin

The teaching programme of the Department is designed to meet the needs both of those students who intend to specialize in Psychology and of those who require a general background in the subject. The later should first take Psychology 1 and then select one or more of Psychology 2, 3 or 4. Those who intend to make Psychology their major field of study are advised to take Psychology 1 in their first and Psychology 2 in their second year, since these courses will provide the necessary preparation for the more specialized courses which constitute the remainder of the programme for students majoring or honoring in Psychology. Such students should consult the Department at the earliest possible moment, so that an appropriate sequence of courses can be arranged.

1. **Introduction to Psychology.**—M., W. and F. at 10.30 a.m. M., W. and F. at 1.30 p.m.
J. W. Clark, J. M. Stoyva.

An introduction to Psychology as a biological and social science of human and animal behaviour. The course deals with sensation, perception, learning motivation, development, individual differences, and social influence on behaviour.

Text Books—Hebb: "A Text Book of Psychology"; "Scientific American", reprints.

2. Experimental Psychology I (General).—Tu. and Th. at 9.30 a.m.
P. H. R. James

Prerequisite.—Psychology 1 or Biology 1.

Fundamental problems in the study of learning, perception and motivation. This course provides the student with an understanding of the general nature of these problems and with a detailed account of the present state of knowledge concerning certain limited aspects of them. It is designed primarily for those who intend to specialize in Psychology and also for those whose main interests are in the biological sciences.

Text Book—Broadbent: "Behaviour".

3. Developmental Psychology.—M. and W. at 10.30 a.m. S. A. Rudin.
Prerequisite.—Psychology 1 or 2

The biosocial development of the child from birth to adolescence with emphasis on the influence of social factors on learning, perception, motivation, intelligence and personality.

Text Book—Mussen and Conger: "Child Development and Personality" (rev. ed.); Dennis (ed.) "Readings in Child Psychology".

4. Social Psychology.—Tu. and Th. at 10.30 a.m. S. A. Rudin
Prerequisite.—Psychology 1 or 2

The influence of society on the individual, the interactions of individuals in groups, and the relationships between groups.

Text Books—Krech, Crutchfield and Ballachey: "Individual in Society"; Maccoby, Newcomb and Hartly (eds.) "Readings in Social Psychology", (3rd ed.).

5. Psychological Statistics.—W. and F. at 11.30 a.m. J. M. Stoyva.
Prerequisite.—Psychology 1 or 2.

An introduction to statistical techniques useful in psychological experimentation. Frequency distribution, measures of central tendency and variability, probability, correlation, parametric and non-parametric tests of significance are among the topics studied. The course is required for students who intend to specialize in Psychology and is taken prior to, or concurrently with Psychology 6.

Text Books—Underwood, Duncan, Taylor and Cotton: "Elementary Statistics".

6. Experimental Psychology II. (Methods and Measurements).—Tu. and Th. at 1.30 p.m. and laboratory work as required. H. D. Beach.

Prerequisite.—Psychology 1 or 2 and Psychology 5 (which may be taken concurrently)

Procedure and inference in psychological investigation, including the design of experiments and methods of measurement. Students are required to do selective experiments. The course is required for students who intend to specialize in Psychology.

Text Books—McGuigan: "Experimental Psychology"; Underwood: "Psychological Research"; Guildford: "Psychometric Methods" (3rd. ed.)

7. Physiological Psychology.—M. and W. at 9.30 a.m. J. M. Stoyva.
Prerequisite.—Psychology 2 or Psychology 1 and Biology 1.

The structure and function of the central hormone system, with special reference to the physiological correlates of learning, perception, motivation and complex behaviour.

Text Books—Gardner: "Fundamentals of Neurology" (3rd ed.); Hebb: "Organization of Behaviour" paper back ed.

8. Theories of Personality.—M. at W. at 2.30 p.m. J. W. Clark.
Prerequisite.—Psychology 2.

The theories of Freud, Miller, Cattell, Eysenck and Allport, with a discussion of experimental research on the development of personality.

Text Books—Hall and Lindzey: "Theories of Personality" and assigned readings.

9. History and Systems of Psychology

Prerequisite.—Psychology 2.

The history of certain problems of central importance in contemporary psychology.

10. Abnormal Psychology.—W. and F. at 10.30 a.m. W. H. Coons.
Prerequisite.—At least two courses in Psychology.

Primarily for Honours and Graduate students, but others may be admitted with the consent of the instructors.

The nature and causes of the behaviour disorders.

Text Book—Cameron: "The Psychology of the Behaviour Disorders".

11. Psychology of Learning.—W. and F. at 11.30 a.m. P.H.R. James
Prerequisite.—Psychology 2.

Current experimental and theoretical problems in learning and problem solving.

Text Books—Assigned Readings.

12. Psychology of Motivation.

Prerequisite.—Psychology 2.

Theory and research on the arousal and direction of behaviour in animals and man.

13. Psychology of Perception.

Prerequisite.—Psychology 2.

Sensory physiology, psychophysics and selected problems in the study of visual and auditory perception.

***14. Experimental Psychology III (Thesis and Tutorial Staff)**

Prerequisite.—Restricted to honours students in their final year.

The student is assigned to a member of the Department's Staff, with whom he discusses current experimental problems of common interest, and under whose direction he designs and performs an original experimental investigation.

RELIGIOUS STUDIES

Candidates for the degree of B.A., interested in religious studies may satisfy the grouping requirements (see page 38) by a selection of classes listed below. For information and advice, they may consult Professor Page.

1. English Bible.....	English 26	see page 46
2. Mediaeval History.....	History 7	
3. Renaissance and Reformation.....	History 4	
4. Ethics.....	Philosophy 3	
5. Philosophy and Science.....	Philosophy 4	
6. Greek Philosophy to Aristotle.....	Philosophy 5	
7. Aristotle to Augustine.....	Classical Literature 6	
8. Mediaeval Philosophy.....	Classical Literature 7	
9. Philosophy of Religion.....	Philosophy 20	
10. Psychology of Religion.....	Philosophy 22	
11. Christianity and Western Civilization.....	Sociology 4	
12. Comparative Study of Religion.....	Sociology 7	
13. History of Christian Theological Thought.....	Philosophy 21	
14. Problems of Self.....	Philosophy 15	

ROMANCE LANGUAGES

Professor.....	P. Chavy (Head of Dept.)
Assistant Professors.....	H. F. Aikens, Maria Teresa Garcia-Lopez, Irene Coffin, S. Journoud, P. H. Thomas, P. Weisz.
Lecturers.....	Suzanne J. Chavy, E. Boyd, G. Kohanyi

French

A Language Practice Laboratory is at the disposal of students, enabling them to make up their deficiencies in spoken French. Special laboratory work will be required in certain classes.

No more than two classes may be taken at the basic level.

First Year Students have the following options: French 1, 1A, 10, 11; Second Year Students have the following options: French 2, 2A, 3, 10, 11 (plus intermediate classes for those who have taken French 10 or 11 in their first year).

French 1 and 2 are recommended for those studying French for general cultural purposes. French 3 is recommended for science students as a substitution for French 2. French 10 and 11 are designed for students particularly interested in French studies. They involve more laboratory or home work. By taking one of them, first year students enter the intermediate level earlier.

1. A General Review of Basic French.—Three hours per week.
(1) M., W. and F. at 8.30 a.m.—(2) M., W., F. at 9.30 a.m.—(3) and
(4) Tu., Th. and S. at 9.30 a.m.—(5) Tu., Th. and S. at 10.30 a.m.—(6)
Tu. and Th. at 7.30 — 9.00 p.m.

Co-ordinator—P. Weiss

The objectives of this course are: (1) familiarity with the basic forms of the written language (grammar and vocabulary), leading to skill in reading and self-expression (written exercises); (2) a knowledge of the fundamentals of French pronunciation (ability to write from dictation and to pronounce with reasonable accuracy material studied in class). Students take an oral examination requiring preparation in the Language Laboratory.

Prerequisite.—Junior Matriculation French and entrance test.

1A. French 1 with two additional hours. Five hours per week. For French 1 classes see time table above. Additional classes to be announced.

This course is designed to meet the needs of (1) students who are beginning the study of French, and (2) others who, in the opinion of the Department, are insufficiently prepared to take French 1. The special attention given students in French 1A should enable them to reach the level of French 1 by the end of the session. The final examination is that of French 1.

2. Introduction to Literary and Conversational French.—Three hrs. per week. (1) M., W. and F. at 8.30 a.m.—(2) M., W. and F. at 9.30 a.m.—(3) M., W. and F. at 10.30 a.m.—(4) Tu., Th. and S. at 8.30 a.m.—(5) Tu., Th. and S. at 9.30 a.m.—(6) T., Th. and S. at 10.30 a.m.—(7) T. and Th. at 7.30-9.30 p.m.

Co-ordinator—Suzanne J. Chavy.

The objectives of this course are similar to those of French 1, but at a higher level. Attention is placed on the literary qualities of the reading selections studied. Practical exercises in conversation. Students take a series of oral tests requiring preparation in the Language Laboratory.

Prerequisite.—French 1 or Senior Matriculation and entrance test.

2A. French 2 with two additional hours. Five hours per week. For French 2 classes, see timetable above. Additional class hours to be arranged.

This course is designed to meet the needs of students who, in the opinion of the Department, are insufficiently prepared to take French 2. The special attention given to students in French 2A should enable them to reach the level of French 2 by the end of the session. The final examination is that of French 2.

3. Scientific Research.—M. W. and F. at 8.30 a.m. G. Kohanyi

This course is designed mainly for science students. It aims at enabling them to (1) understand and translate French scientific publications; (2) write in French simple factual reports; (3) read aloud intelligibly scientific papers written in French.

Prerequisite.—French 1.

10. Oral French.—M., W. and F. at 9.30 a.m.

H. F. Aikens

Concentrated study of the basic structures of French; extensive use of the Language Laboratory with the aim of achieving an active command of both spoken and written forms. Three classes per week plus four to six hours Laboratory (Lab. hours can be arranged). Students interested are asked to fill in and return the special form supplied by the Registrar.

Prerequisite.—Matriculation French (Junior or Senior) or French 1.

11. Active Reading.—Tu., Th. and S. at 9.30 a.m. P. Chavy.
Prerequisite.—Matriculation French (Junior or Senior) or French 1.

The aims of this course are similar to those of French 10, but the approach is different. The material used consists of a series of books (travel, biography and fiction) graded as to difficulty, to be read at home. Classes are devoted to exercises based on these texts.

INTERMEDIATE CLASSES

(Conducted in French)

No more than two classes may be taken at the intermediate level. French 30 is more especially intended for former students of French 10.

Prerequisite.—French 2, 3, 10 or 11.

30. Further Oral French.—M., W. and F. at 3.30 p.m. H. F. Aikens

Continuation and completion of work begun in French 10. Further study of the structures of French; practice in oral comprehension and reading; systematic increase of vocabulary through study of French civilization; frequent dictations and written tests requiring preparation in the Language Laboratory; guided exercises in self-expression.

31. History of French Civilization.—W. and F. at 2.30 p.m. S. Journoud

A study of the great periods in the history of France, stressing the relations between historical events and living conditions on the one hand, intellectual and artistic achievements on the other.

32. Today's France.—W. and F. at 4.30 p.m. P. Weisz

Readings and discussions dealing with problems that confront contemporary France.

33. From Book to Stage.—Tu. and Th. at 2.30 p.m. P. Chavy

Selected scenes from French plays of all ages are first studied, then staged and performed by students.

34. General Survey of French Thought and Literature.—Tu. and Th. at 4.30 p.m. S. Journoud

This course aims at introducing students to the greatest writers and the most significant masterpieces of French Literature from the Middle Ages to our time.

35. Practice in Oral and Written French.—W. and F. at 4.30 p.m.

Dictations, compositions, conversations. Of special interest to those wishing to obtain besides a university credit, the "Certificat Pratique de Langue Française" granted by the Sorbonne.

SENIOR CLASSES (Conducted in French)

Prerequisite.—Any intermediate class.

40. Old French.—W. and F. at 2.30 p.m. P. Chavy

Historical grammar and mediaeval French literature will be studied through a comprehensive anthology of old texts.

42. The Classical Age of French Literature.—(1963-64). W. and F. at 3.30 p.m. P. H. Thomas

A study of the great authors in the reign of Louis XIV.

43. French Literature and Thought in The Eighteenth Century.—(1964-65). W. and F. at 3.30 p.m.

A study of literary and philosophical trends in France in the "Age of Enlightenment".

45. Contemporary French Literature.—W. and F. at 4.30 p.m. S. Journoud

A study of the most representative French writers of our time. (1880-1950).

- *50 Stylistics.—(1963-64 and in alternate years). Two hours per week (Times to be arranged) H. F. Aikens

Especially for Honours and M.A. students.

An attempt at analysis, mostly through translation from French to English and from English to French, of the means by which users of these languages convey various shades of meaning and produce particular effects.

- *51 Phonetics.—(1964-65 and in alternate years). Two hours per week (Times to be arranged) H. F. Aikens

Especially for Honours and M. A. study.

Systematic analysis of the sounds of language, with special reference to French and English. Particular attention may be given to the eradication of faults in pronunciation, methods of teaching pronunciation, or such more specialized problems as accents, diction, spelling reform, etc.

Spanish

- Spanish A.—Tu., Th. and S. at 9.30 a.m. M. T. Garcia-Lopez

This is an introductory course designed for students who are beginning the study of Spanish. It can be counted as a credit towards a degree or diploma only if it is followed by a second class in Spanish.

Text Books—Rogers: "Spanish for the first year" (McMillan, N. Y.) Castillo: "Sigamos Leyendo" (Heath, Boston).

- 1.—M., W. and F. at 8.30 a.m. M. T. Garcia-Lopez

Prerequisite.—Spanish A or a matriculation credit in Spanish.

A review of Spanish Grammar will be given during the year.

Spanish conversation and translation from English to Spanish based on Hispanic subjects will be stressed. There will be an oral examination at the end of each term.

Text Books—Every student must have the following books—Agostini-Los Rios: "Lenguaviva Y Grammatica"; Rodriguez-Alcata: "Cino Yanquis en Espana"; Rodriguez-Castellano: "Introduccion a la Historia de Espana".

The following courses will be conducted in Spanish.

2. 19th Century Spanish Literature—Restoration and "Generation of 98"—(1962-63). M., W. and F. at 9.30 a.m. M. T. Garcia-Lopez

A review of Spanish grammar and history will be given with a special emphasis on the 19th century and the first quarter of the 20th century. Every student will present a paper after reading an author. There will be an oral examination at the end of each term.

Text Books—Every student must have the following books—Agostini-Los Rios: "Lenguaviva Y Grammatica"; Rodriguez-Alcata: "Cino Yanquis en Espana"; Rodriguez-Castellano: "Introduccion a la Historia de Espana".

3. Cervantes and His Time—Reading of "Don Quijote"—(1962-63). M. and W. at 10.30 a.m. M. T. Garcia-Lopez

Prerequisite—Spanish 2.

A review of Spanish grammar and history will be given during the year with special emphasis on the 15th, 16th and 17th centuries. Every student will present a paper on a chapter of "Don Quijote" at each class. About twenty chapters will be read in the first term, about thirty in the second term. Translation from English into Spanish. There will be recommended reading. There will be an oral examination at the end of each term.

Text Books—Every student must have Rodriguez-Castellano: "Introduccion a la Historia de Espana"; Da Cal: "Literatura del Siglo XX"; Cervantes: "Don Quijote" (any modern Spanish edition).

Reference Books—"Actualidad" (Madrid Weekly); Ballesteros: "Sintesis de la Historia de Espana"; Valbuena: "Historia de la Literatura Espanola".

4. The Golden Age of Spanish Literature.—(1963-64). F. at 10.30 a.m.-12.30 a.m., and 9.30 a.m.-11.30 a.m. M. T. Garcia-Lopez

Prerequisite—Spanish 2 and 3.

First Term.—The Humanists: "The Complutense Poligraph Bible"; the Poets: Getina, Garcilaso, F. Luis de Leon, Congora. The Picaresque novel: "El Lazarillo", Quevedo and his "Buscon".

Second Term.—Spanish Drama: Miracle plays, Juan del Encina, Lope de Vega and his theatre, Tirso de Molina and Don Juan's "Leyend", Calderon and his "Autos", 18th Century: Moratin and his classicism, Don Ramon de la Cruz and his "Sainetes", 20th Century: Benevente.

Text Book—Pattison: "Representative Spanish Authors" (Vol. 1).
Reference Books—To be announced.

5. History of Spain and of Hispano-America (1492-1898).—(1964-65). F. from 10.30 to 11.30 a.m. M. T. Garcia-Lopez

Prerequisite—Spanish 2 and 3.

Discovery, colonization, and independence of Hispano-American colonies.

Text Books—Ballesteros: "Sintesis de la Historia de Espana".
Reference Books—To be announced.

6. The Golden Age of Spanish Literature.

For Honours and M.A. students.

First Term.—Spanish Mystics and Ascetics.

Second Term.—Spanish Drama.

Text Books—To be announced.

Russian

Assistant Professor.....Irene Coffin

Elementary Russian.—M., W. and F. at 10.30 a.m. Irene Coffin

This class is intended for those beginning the study of the Russian language. It may be counted as a credit towards a degree.

Text Book—N. F. Potapova: "Russian Elementary Course" Vol. 1, Lermontov: "Taman".

Russian 1.—Tu., Th. and S. at 10.30 a.m. Irene Coffin

Prerequisite.—Elementary Russian.

Text Books—N. F. Potapova: "Russian Elementary Course" Vol. II. Two short stories by Pushkin

Russian 1S. (Scientific Russian).—Tu., Th. and Sat. at 10.30 a.m. Irene Coffin

This class is intended for those who wish to read scientific articles as quickly as possible. It is taught in conjunction with Russian 1. No student may register for both Russian 1 and Russian 1S.

Text Books—N. F. Potapova: "Russian Elementary Course" Vol. II. Znamensky: "Elementary Scientific Russian Reader" (Sir Isaac Pitman & Sons, [Canada] Ltd.).

Russian 2.—M., W. and F. at 1.30 p.m.

Prerequisite.—Elementary Russian and Russian 1 or 1S.

Text Books—To be announced.

Higher work in Russian may be arranged by consultation with the instructor.

Sociology: see Economics

Spanish: see Romance Languages

Zoology: see Biology