

Medicine in Halifax in the Province of Nova Scotia with Medical Observations in December



CALENDAR

1967-1968

University of King's College

FOUNDED A.D. 1789

HALIFAX, NOVA SCOTIA

179th SESSION

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GENERAL UNIVERSITY ALMANAC 1967-68

- June 11 Su. —The Atlantic Summer School for Advanced Business Administration begins.
- July 8 S. —Last day for receiving applications for supplemental examinations in Arts and Science to be written at outside centres.¹
- 12 W. —Last day for receiving applications for Fall Supplemental examinations in all faculties.²
- 15 S. —The Atlantic Summer School for Advanced Business Administration ends.
- Aug. 15 Tu. —Supplemental examinations begin in Arts and Science.
- Sept. 1 F. —Last date for receiving applications for admission to Faculties of Arts and Science and Divinity.
- 11 M. —Supplemental examinations begin in Divinity. Registration (and payment of fees) begins for new students in Faculty of Arts and Science,³ and in the School of Divinity. The only regular registration day for new students from Halifax and Dartmouth.
- 12 Tu. —Registration begins for other new students in the Faculty of Arts and Science,⁴ and in the School of Divinity.
- 13 W. —Registration begins for other than new students in Faculty of Arts and Science and in the School of Divinity.
- 15 F. —Registration period ends at 5:00 p.m. for returning students from Halifax and Dartmouth, in Arts and Science.

1. Fee must accompany application. No late applications will be considered.

2. Fee must accompany application for examination. If a late application is accepted, an additional fee of \$2.00 per day (maximum \$5.00) must be paid. The late fee applies between July 16 and 31. No application will be considered after July 31, and no refund of fee will be paid after this date.

3, 4. Students whose surnames begin A to J inclusive register from 9 a.m. to 12 noon; those whose surnames begin K to Z inclusive register from 1:30 p.m. to 5:00 p.m.

- Sept. 16 S. —12 noon. Regular registration⁵ period ends for students in Arts and Science and in the School of Divinity. Halifax Students will not be registered on this day. Late fee payable after this date.
- 18 M. —8.30 a.m. Classes begin in Arts and Science and Divinity.
- 25 M. —Last day for change of course in Faculty of Arts and Science⁶ and School of Divinity.
- Oct. 2 M. —Final date for late admission of students who have been accepted before September 15 (Arts and Science and Divinity).
- 3 Tu. —Meeting of the Faculty of Arts and Science. Meeting of the Divinity Faculty.
- 9 M. —Thanksgiving Day. No classes.
- 16 M. —Last day for change of course or class in Arts and Science, without penalty.
- Nov. 11 S. —Remembrance Day. No classes.
- Dec. 1 F. —Last day for withdrawal from class in Arts and Science, without penalty.
- 20 W. —12.30 p.m. Christmas vacation begins.

1968

- Jan. 3 W. —Classes resumed.
- Feb. 2 F. —Munro Day. No classes.
- 3 S. —Winter Carnival. No classes.
- Mar. 4 M. —Study break.
- 11 M. —Classes resumed.
- 30 S. —Last day for receiving applications for Spring supplemental examinations. (Fee must accompany applications.)
- Apr. 12 F. —Good Friday. No classes.
5. Late registration requires approval of the Dean of the Faculty, and an extra fee not to exceed \$5.00 per day or a total of \$35.00.
6. Charge of \$1.00 for changing course after this date.

- Apr. 17 W. —Last day of classes in Arts and Science and Divinity.
- 22 M. —Spring examinations begin in Arts and Science and Divinity.
- May 12 Sun. —11.00 a.m. Baccalaureate Service (King's)
- 15 W. —Encaenia Day—King's Convocation—Divinity, and Social Work.
- 16 Th. —University Convocation.
- 17 F. —University Convocation. Regular session ends.



OFFICE HOURS

- Week days (Monday-Friday) —9.00 a.m. - 5.00 p.m.
- June, July, August (Monday-Friday) —9.00 a.m. - 4.30 p.m.

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University of King's College

HISTORICAL SKETCH

The history of higher education in Canada began in 1789 with the founding at Windsor, Nova Scotia, of the University of King's College. At the time of its establishment it was, with the exception of the fifteenth-century King's College in Cambridge and in Aberdeen, the only foundation of that name in existence. Although there had been a King's College, New York, chartered by George II in 1745, it did not survive the end of the colonial period in America and its re-organization in 1784 under the name of Columbia College was undertaken on an entirely different plan. The Loyalist political and religious principles upon which the New York seminary had been founded migrated, along with the Loyalists themselves, to Eastern Canada, and in 1802 a Royal Charter was granted by George III proclaiming King's College, Windsor, "the Mother of an University for the education and instruction of youth and students in Arts, to continue forever and to be called King's College."

Since that time, King's has maintained in Canada certain of the Oxford traditions. In 1920, when the original buildings were destroyed by fire, the University moved to Halifax, where, with the assistance of the Carnegie Corporation, new buildings were eventually erected on the campus of Dalhousie University. In 1930 it entered into partnership with Dalhousie which, with a Royal Charter dating from 1820, is the third of Canada's senior universities. This novel arrangement, by which the English and Scottish University traditions were united, is upheld by a special agreement under which the two have maintained joint faculties of Arts and Science, so that undergraduates of King's read for the B.A. and B.Sc. of Dalhousie. King's has left her own degree-granting powers in abeyance in these faculties and now gives degrees in theology by examination, together with honorary degrees in Divinity and Laws, and a Master's Degree in Social Work on recommendation of the Maritime School of Social Work.

In May 1941, the King's College buildings were taken over by the Royal Canadian Navy as an Officer's Training Establishment, and during the next four years, until May 1945, nearly 3100 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.

King's College is residential, on the Oxford and Cambridge pattern, and, in addition to the day students who live out, 125 men and 100 women can be accommodated in residence. Dinner in Commons Hall is formal with Latin grace; the wearing of academic dress is required of all members of the College *in statu pupillari* and the emphasis is everywhere upon the corporate life. The inestimable benefits of life in a small residential college are, in England at least, an accepted part of the "Oxbridge" tradition, but this is certainly not so in North America, where universities have in general followed either the German policy of having no residential facilities at all, or the English provincial plan of housing a proportion of the student body in "halls of residence" entirely separated from the university itself. The corporate life in King's thus emerges as something rare on the North American continent, since it is designed to educate "the whole man" and not simply to train him for specific examinations.

In addition to its athletic activities, the College runs a vigorous Debating Society, known as the "Quintilian", and a Dramatic Society which stages two plays each year. Daily services are held in the Chapel for those who wish to participate; although the College is an Anglican foundation and incorporates a School of Divinity for the training of Anglican clergy, there is no denominational bar aimed at the exclusion of non-Anglicans from membership of the College, either as lecturers or students. Several members of the Faculty are themselves resident and function in the traditional manner as "dons" for the staircases or "bays". As a matter of mild interest, the bays are named: Chapel Bay is the most distant from the Chapel; Middle Bay is not in the middle; North Pole Bay in on the South side and its proximity to the furnace

makes it the warmest, while Radical Bay houses the theological students. The residential structure of the College is, in this respect, a practical manifestation of donnish humour of a kind not often encountered on the Western side of the Atlantic. Alexandra Hall is the residence for women, and the newest area for men is Cochran Bay.

Now that there are many large overcrowded universities which find it difficult if not impossible to concentrate upon anything not strictly connected with a student's graduation at the earliest possible time, there is all the more reason for the encouragement of the small residential university wherein the future leaders of society may be educated towards the acceptance of social and moral responsibility. The education of such people must be conducted on an individual, not a mass, basis.

King's tries to be a miniature of the Christian ideal of the larger community and as such can never be considered an anachronism. It is this, rather than any of the more superficial observances, which links King's with the older universities of Britain and makes it unusual in Canada.

CONSTITUTION

The Board of Governors is the Supreme Governing Body of the University. It consists of the Bishops of the Diocese of Nova Scotia and Fredericton, the President of the University, the Vice-President, the Treasurer, two members elected by each Faculty, 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.

Convocation consists of the Chancellor and the Vice-Chancellor, together with all Bachelors of Divinity and Masters and Doctors of the University; Members of the Board of Governors and of the Faculty of Arts and Science who hold the degree of Master or Doctor from any recognized

University; members of the Faculty of Divinity; Fellows of the University and Bachelors of the University of five years' standing who are recognized by the Clerk of Convocation. All degrees are conferred by Convocation.

The Faculties consist of the members of the teaching staff on the King's Foundation in the Faculty of Arts and Science under the Agreement of Association with Dalhousie University and the members of the teaching staff in the School of Divinity.

FACULTIES

Faculty of Arts and Science

The University of King's College having entered an association with Dalhousie University, the students registered in Arts and Science attend classes jointly with Dalhousie students. These classes are given by Dalhousie professors or by professors on the King's Foundation, depending on the course taken. **The students of both institutions follow the same curriculum, take the same examinations, and must attain the same academic standard.**

Faculty of Divinity

The school of Divinity is under the direction of the Divinity School Council which is responsible to the Board of Governors. Degrees and diplomas in Theology are awarded to candidates fulfilling the necessary academic requirements, regardless of religious denomination or sex. Students are also prepared to meet ordination requirements in the Anglican Church of Canada. The Course of Study for these candidates is subject to the Bishops in the Dioceses of Nova Scotia and Fredericton.

AFFILIATED INSTITUTIONS

The Maritime School of Social Work was incorporated in 1941.

The Atlantic Summer School of Advanced Business Administration was founded in 1952.

The Institute of Pastoral Training was founded in 1955.

EXEMPTIONS GRANTED TO KING'S COLLEGE BY 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 Rhodes Scholarships exempt from the qualifying examination candidates who are exempt from Responsions by the University of Oxford.

The University of London exempts Bachelors of this University from the preliminary examinations leading to the LL.B. degree of that University; and students in Medicine are exempted from the Course of Study anterior to the First and Second Examinations for Medical degrees if they have pursued equivalent courses at this University.

PRIVILEGES GRANTED TO UNIVERSITY OF KING'S COLLEGE STUDENTS BY FINE ARTS GROUPS

Students of University of King's College have the privilege of attending a variety of musical and dramatic events at reduced rates. Organizations which extend this privilege include:

Halifax Community Concerts
Halifax Ladies' Musical Club
Halifax Symphony
Theatre Arts Guild

Travelling art exhibits are on display in the University Art Gallery throughout the academic year.

CHAPEL

Regular worship is an integral part of the facilities afforded by the University. All students are encouraged to attend the daily morning and evening services in the College Chapel. On Sunday mornings, all students are expected to attend the Chapel Service or some other service of their choice.

Sunday Services:

8:30 a.m. Holy Communion.
11:00 a.m. Morning prayer and Sermon.

The times of week day services are announced at the beginning of each session.

The service on Wednesday morning is a College Corporate communion.

While the services in the Chapel follow the Anglican rite, students of all denominations are welcome and encouraged to attend.

The Rev. D. F. L. Trivett has been appointed to a ministry which includes the Nova Scotia Universities. He is available to all students and conducts discussion groups for students and faculty.

DISCIPLINE

The maintenance of discipline is in the hands of the President, the Deans, and the Professors. Under powers delegated by the Board of Discipline, the students exercise a measure of self-government in maintaining good order and discipline in the residences. Students conducting themselves in an unbecoming manner on or beyond the premises of the College during the season may be fined, suspended or expelled. When a student is expelled from residence there is no return of fees.

Each student who has a car on campus may obtain a parking permit from the Registrar's Office upon the presentation of his key and insurance and license number.

Students are required to be properly and neatly dressed at all times. Each student must have a gown, which may be obtained at the office of the Dean of Women.

All students are expected to attend all lectures and laboratories regularly and punctually and to perform all exercises assigned by the Faculty. Habitual absence from classes and laboratories will be viewed most seriously by the Board of Studies.

Rules and regulations governing residence life are contained in the "Students' Handbook".

Dons in the Bays, the Dean of Men, the Dean of Women, the Registrar, Bursar, Faculty and President are willing to help, counsel, and advise any student at any time, and will act as much as is within their power in the best interest of the students and the College.

KING'S COLLEGE LIBRARY

King's College Library was founded in 1789. Just after the Royal charter was granted to the College in 1802, Bishop Inglis sent his son to England with \$250 to begin the purchase of books. The library grew steadily during the 19th century and was probably one of the best libraries in English-speaking Canada of the time. There were various benefactors over the years, chief of whom was Thomas Beamish Akins. From Mr. Akins the library received most of its rare collection of some 40 incunabula (books printed before 1500, that is, during the first fifty years since the invention of printing with movable type). This is a remarkable number of these very rare books to be found in such a small library.

King's Library is very rich in the field of English literature. Much of the credit for the development in this field must go to the late Professor Burns Martin. The Professor Burns Martin Memorial Fund continues to aid the library's growth in this area.

With the help of the William Inglis Morse Endowment for Canadiana, this important area of study is growing steadily as more and more works are being published about our country.

The largest proportion of books, however, is found in the field of Theology. This collection is large and comprehensive and constantly kept up to date. The John Haskell Laing Memorial Bequest helps with the purchase of books in this field.

Book purchases in the general field are aided by memorial funds to the following persons: the Hon. William Johnston Almon, Frances Hannah Haskell, James Stuart Martell, and Thomas Henry Hunt (Alumni Memorial).

The library is open Monday to Friday from 9.00 a.m. to 5.00 p.m., and 7.00 p.m. to 10.45 p.m. On Saturdays the hours are 9.00 a.m. to 12.00 noon. For part of the session the reading room will be open on Saturday and Sunday from 2.00 to 5.00 p.m.

The student loan period for all books except those on reserve is one week. Books on the reserve lists may be borrowed for a period of three days or overnight only. Overnight books may be used in the library during the day and taken out anytime after 3.30 p.m. They are due at 10.00 a.m. the following morning.

Fines will be charged for overdue books at the rate of twenty-five cents a day for seven day books and fifty cents per day for three-day books. Overnight reserves will have an overdue charge of five cents an hour while the library is open.

Students are given the privilege of borrowing books for the summer.

DEGREES AND COURSES

The degrees of Doctor of Divinity and Doctor of Civil Law, may be conferred *honoris causa* in recognition of eminent literary, scientific, professional or public service.

The dignity and honour of Fellow may be conferred by the vote of Convocation upon any friend of the University for noteworthy services rendered on its behalf.

Convocation confers the degrees in course of Doctor of Divinity and Bachelor of Divinity and Associate of Theology (on recommendation of the Board of Examiners of the General Synod of the Anglican Church of Canada), Master of Social Work (on the recommendation of the Maritime School of Social Work), Bachelor of Sacred Letters and Bachelor of Sacred Theology. Courses are prescribed for the diplomas: Licentiate of Theology, Testamur, Associate of King's College, (Nova Scotia).

Pre-professional work in Arts and Science by students intending to enter one of the Dalhousie professional schools may be taken as a student of King's College.

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, 6414 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.

Bachelor of Education

King's College graduates are eligible for the course leading to a degree in Education. Either Education 1 or 2 may be taken by undergraduates for credit towards a degree; but not both.

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 Professional Certificate (Class II) 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 I).

KING'S COLLEGE RESIDENCE 1967 - 68

Dean of Men—(Pending)

Dean of Women—Mrs. G. S. Clark

Dons—Professor Roger Beehler
C. Edward Pickett
George Sharpe
Michael Burslem

Residence life at the University is **encouraged for all students** because the community life there enjoyed forms an essential part of the student's education. Exceptions will be made in the case of a student living at home or with relatives living within easy travelling distance of the College.

Male students live in the men's bays (Chapel, Middle, Radical, North Pole and Cochran), each housing 22-26 men, under the supervision of a resident Don. Female students live in Alexandra Hall, a residence accommodating 100 girls, under the supervision of the Dean of Women.

All rooms are furnished with bed, dresser, closet, desk and chairs, but **students are required to provide their own bedding and towels**, and to attend to their own laundry arrangements. Coin-operated washing and drying equipment is provided in both men's and women's residences. Buildings are heated from a central heating plant, as is hot water for domestic use.

Single and double rooms are available to both men and women, priority for single rooms being given to students in their senior years.

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). The men's common room and lounge is open to residents of all bays, as is the Haliburton Room, a gathering place for all students and the site of many student activities.

The women's residence was built in 1962 and is modern in every respect. It contains, besides the rooms in which female students live, a reading room, lounges, games room, a service elevator and ample storage space.

Both residences are designed so that it is not necessary to go outside for meals and extra-curricular activities.

Meals are prepared and served to all resident students in Prince Memorial Hall, erected in 1962.

Students accepted in residence must remain for the whole session, or, in the case of withdrawal during the session, must obtain substitutes satisfactory to the Dean. All residents will be charged with room for the complete session and will be liable for this charge unless or until a substitute has assumed obligation to the University for the balance. No student may withdraw from the residence without notice to the Dean.

The residence will be opened for students from the evening of September 10th, 1967 until December 20th, 1967, and from the evening of January 2nd, 1968, to the morning of May 17th, 1968. Resident students in faculties whose terms exceed these periods may reside in the College by permission of the Dean on payment of rent; and, when Prince Hall is open, meals may be eaten by arrangement with the Steward.

(Students not in their graduating year will be expected to vacate the residence on the day following their last examination).

Confirmation of accommodation will not be made until the student has been accepted by the University for the coming session and a \$50.00 residence deposit has been received by the Business Office. Deposits for all applications made prior to July 15th must be received by that date. Applications for Residence accommodation made after July 15th must be accompanied by the \$50.00 deposit. Cancellation of application received by the Registrar prior to September 1st will entitle the student to a refund of the \$50.00 deposit.

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.

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

Discipline

If a student is required by a Faculty to discontinue attendance in the Faculty solely because he has failed to main-

† 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.

tain 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 fees will be made to any student dismissed from classes or from residence, or from the University.

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.

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.

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 degrees may be conferred, in exceptional cases, *in absentia*. Written application giving reasons

* These regulations do not apply to the Dramatic Society.

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, in co-operation with the University, maintains a year-round office on campus. This is done to assist students in obtaining employment and to assist employers wishing to recruit at this University.

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, LeMarchant Street.

There are opportunities for students to earn part of their college expenses by working in the Library, Gymnasium and Dining Hall.

Students' Counsellor

Students worried or anxious about any matter are invited to consult the students' counsellor, who is a physician with broad experience in other fields. There is no fee for this service and all interviews are strictly confidential.

Office hours: 9:00 a.m. to 5:00 p.m., Monday through Friday, Room 134, Arts Annex.

Tutors

For students whose proficiency in languages is not satisfactory, the department concerned will recommend accredited tutors.

Student Health Service

1. All students registering for the first time at the University are required to submit a certificate of health. This requires a physical examination by the student's personal physician and the completion by the physician of the University's Health record.

2. All students returning to the University are required to complete an annual medical questionnaire at the time of registration.

3. Other examinations may 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. Tuberculin Tests.

(1) All students are required to have an annual tuberculin test. The purpose of this test is to protect students from the risk of infection by carriers who may not display any visible signs of disease or be aware of their condition. The effectiveness of such precautionary measures is reduced very considerably unless every student is tested. The co-operation of students in this simple and harmless test is vital to the welfare of the entire student body.

2 Students will be required to return for the interpretation of the test. If the reaction is positive a chest X-ray will be required.

(3) Students who are conscientious objectors to the tuberculin test or X-ray must indicate this and obtain a certificate of good health from the Student Health Service. **The tuberculin test is a requirement for registration. Those who do not complete this requirement will not be fully registered and will be required to pay the fee for late registration.**

5. Medical Care.

The Student Health Service undertakes the comprehensive health care of persons enrolled as full-time students. The Service is prepared to advise in the prevention, diagnosis, treatment, and rehabilitation of any condition which may threaten to impede the development, or diminish the fitness, of an individual functioning as a student.

Although the Service is expanding rapidly, and staff appointments are keeping pace with the needs of the students, at present there are two full time general practitioners em-

ployed to provide twenty-four hour comprehensive medical care. In addition, two psychiatrists are retained by the Health Service and are available for prevention, diagnosis, and treatment of emotional conditions which may in any way interfere with the individual's function as a student.

Further specialist services in a modern, fully accredited medical centre are available wherever indicated.

6. Emergency Treatment.

In the event of a medical emergency students should telephone the Student Health Service.

7. Hospital Care

In most instances, Canadian students are eligible to receive insured standard ward care in the Halifax Hospitals should hospitalization be necessary during their University year. This is provided by arrangements between the Hospital Insurance programme in Nova Scotia and similar Hospital Insurance programmes in all Canadian provinces. **The student is expected to enroll in the Hospital Insurance programme of his home province where such enrolment is required.** If he does not obtain such coverage, the Student Health Service will not be responsible for hospital accounts.

8. The Student Health Plan does not provide for the following:

(a) Medical or Surgical care other than that provided by, or arranged through, the Student Health Service.

(b) X-ray or Laboratory service, except as authorized by the Student Health Service.

(c) Prescriptions other than those prescribed in the Student Health Service. (WARNING: Except in emergencies, students who are admitted to hospital or have other medical services, to include X-ray, laboratory services, and prescriptions, except by prior arrangement with the Student Health Service, will not have their accounts for hospital or medical services paid).

(d) Dental treatment.

(e) Illnesses attributable to misconduct.

9. All students entering the University who can not present certificates of having been successfully vaccinated against smallpox will be required to submit to vaccination. A free clinic for immunization against diphtheria and smallpox is held every Wednesday at 2.00 p.m. at the Halifax Health Centre, 5970 University Avenue.

10. Coverage under the Student Health Service applies to all registered students with the exception of (a) Students registered for the degree of Bachelor of Nursing—for the period of hospital training only; (b) Students in fifth-year Medicine; (c) Students in Graduate Psychiatry; (d) Occasional students; (e) Part-time students.

11. Further services or requirements may be announced at the time of registration.

Health and Physical Education

All students in their first year of attendance at the University are advised to follow a prescribed course in Health and Physical Education, unless they are exempted by a medical certificate or by satisfactory evidence that they have already completed a similar course at an approved institution. Each new student on registration is expected to report to the Director of Physical Education.

Church Attendance

All students not residing with parents or guardians are invited to report to the University Office, on or before October 15, the churches which they intend to make their places of worship during the session. The University extends its facilities to all denominations to make contact with their adherents following registration.

The CHAPLAIN'S OFFICE is on the first floor of the Arts Annex Building, (Dalhousie) and will be open week-days 9:30-5:00 under normal circumstances. Students are invited to drop in any time.

CHAPLAINS

Anglican:

The Reverend Donald Trivett
1665 Oxford St. 423-5707

Baptist:

The Reverend George S. McGray
7087 Bayers Rd. 455-9140

Jewish:

Rabbi Joseph Deitcher
6674 Quinpool Rd. 423-5200

Lutheran:

The Reverend R. E. Rock
44 Summit St., Dartmouth 466-7005

Presbyterian:

The Rev. R. D. MacLean
6357 London St. 454-5253

Roman Catholic:

Father G. MacLean
St. Agnes Church Rectory 454-3090

United:

The Reverend Donald S. MacDougall
6232 Cedar St. 423-4271

Articles Lost and Found

Students are required to report promptly at the Business Office the loss or finding of any article in or about the University buildings or grounds. The University will not accept any responsibility whatever for books, clothing, etc., lost or removed from the University premises.

University Naval Training Division

The University Naval Training Division (UNTD) constitutes Canada's chief source of officers.* While students

* For the Royal Canadian Reserve.

work toward 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 Staff Officer, whose office is located in C.F.B. Scotian.

Canadian Officers Training Corps

The Dalhousie - King's Universities Contingent of the Canadian Officers Training Corps provides an opportunity for selected male students, who are seventeen years of age and physically fit, to become qualified officers in the Canadian Army (Regular or Militia). Theoretical training during the academic year consists of one two-hour evening lecture per week. Practical phase training during summer months offers a maximum of fifteen 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 School. Further details may be obtained from the C.O.T.C. office in the Drill Hall, Windsor Park. Further details may be obtained from Major D. F. L. Trivett, Chaplain's Office.

Airforce University Reserve Squadron

The University Reserve Squadron provides officer training in all non-flying positions for those students who meet the Airforce standards and who are available for at least two summers of training prior to graduation. During the summer period, officer cadets are paid as second lieutenants and will be trained and employed at various bases across Canada. Throughout the winter, two hour training lectures are held each Wednesday evening. Further details may be obtained from the Resident Staff Officer whose office is in Room 324, Law School, Telephone 422-5934.

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

attending 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.

EXPENSES*

Resident Students

The annual charges for board, light, etc., to Resident Students from Arts and Science registration day (including Sunday, September 10th) until Dalhousie Convocation Day (except that students not in their graduating year will be expected to vacate the residence on the day following their last examination) are as follows: — —

	Double	Single
Men's Residence	\$700.00	\$750.00
Women's Residence	\$700.00	\$750.00

Students in residence must make a deposit of \$400.00 at commencement of the first term, the balance of the bill to be paid in January. New students are expected to deposit \$50.00 when pre-registering and returning students \$20.00. This will be credited to first term account.

Non-Resident Students

Non-resident students must pay for the following at commencement of the first term:

Student Body Fees	\$30.00
Gown	15.00
Cap	5.00

and any tuition fees payable to the University of King's College.

* 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.

Surcharges

If deposit is not paid within 21 days of registration day a surcharge of 3% will be charged and a further 2% for each additional complete month until paid. The same applies to charges payable by Non-Resident Students.

Second term residence fees are due in January and surcharges as above will be levied after January 30th.

Fee For Student Organizations

At the request of the King's student body, a fee of \$30.00 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.

The items above, together with a key deposit of \$5.00, are payable at King's Business Office.

FEEES

Payment to be made to Dalhousie University Business Office. Fees must be paid in CANADIAN FUNDS at par in Halifax (add $\frac{1}{8}$ of 1%, minimum 15 cents, on cheques outside of the Halifax area). Post-dated cheques cannot be accepted.

FOR FULL TIME STUDENTS (students registered for more than two classes), fees are payable on registration or in two instalments. The first instalment is \$350.00 including deposit. The second instalment, \$218.00, is due by January 12th. Any student whose fees are not paid in full by January 31st will be suspended from the university. A carrying charge of \$5.00 is added if fees are not completely paid on registration.

FOR PART TIME STUDENTS, registering for one or two classes only, the total fees due must be paid on registration.

SCHOLARSHIPS paid through King's College will normally be applied to charges at King's. If a student has a larger scholarship than his obligation to King's, the balance may be paid by King's to Dalhousie University for tuition fees. The student should enquire at the King's Business Office to ascertain if the Dalhousie Business Office has been informed of the arrangement.

The Dalhousie Business Office does not issue bills for fees; the receipt issued at registration will show the balance, if any, which is outstanding.

Application Fee

A person who submits an application for acceptance as a new student, must send an application fee of \$10 with the application. This is a processing charge to new students, is not refundable, and does not constitute a partial payment on tuition or other fees. **Unless this is received the application will not be processed.** Within a maximum of ten days of being advised of acceptance, the student must pay a deposit of \$50 to Dalhousie, which will be credited to his fee account; failure to do this will result automatically in cancellation of the acceptance and a fresh application, with appropriate fee, must then be made. The \$50 deposit is forfeited if the student fails to register or fails to advise the Registrar by registered letter before August 30 that he will not attend.

Where fees are paid in full by an outside organization refund of application deposit will be made on November 15.

King's College requires a deposit of \$50.00 for each student requesting residence. The **tuition fee deposit** is returnable by Dalhousie if the application is withdrawn before **August 30th** and the **residence deposit** is returnable if the application for residence is withdrawn by **September 1st**.

LATE REGISTRATION

Students are required to register on the regular registration date as shown on page 4. Late registration requires approval of the Dean of the Faculty and extra fee not to exceed \$5.00 per day or a total of \$35.00. A student registered for one or two 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

King's Students\$563.00

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

- a. Registration Fee \$5.50
- b. Student Health Fee 5.00
- c. Library Fee 5.00
- d. Faculty Society Fees (Arts and Science)50

But does not include student council fee of \$30.00 payable to King's.

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 . . . \$110.00

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 \$50.00

EVENING CLASSES

For students wishing to enrol in a single Arts class, take the examination and obtain a certificate \$75.00

For students wishing to audit such a class without writing the examination or obtaining a certificate \$50.00

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 from Dalhousie Registrar's Office.

LIBRARY FEE

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

(A student enrolled at King's is required to pay the King's Council of Students' fee of \$30.00, 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 \$25.50).

FACULTY OF THEOLOGY

Students taking the whole of the Divinity course will be charged each year \$300.00

Arts students in the affiliated courses in Divinity (each) \$ 50.00

For Probationary Year in Divinity fees are as follows:

Religious Knowledge no charge

English Bible 1 or 2 \$ 50.00

Greek 100, Sociology 100, Philosophy 100 and either English 1 or History 100 (each . . . \$110.00

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) \$10.00

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 July 12th, and 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 July 31, the fee will be forfeited.

DIPLOMAS

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

L.Th., A.K.C., Testamur \$12.00

For examination of A.K.C.(N.S.) (not returnable) 15.00

B.S.Litt., B.S.T. 20.00

M.S.W. 20.00

B.D., A.Th. 40.00

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

TRANSCRIPTS

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

First transcript No charge

Additional copies: each original \$1.00

Extra copies, each50

STUDENT PHOTOGRAPH

At time of first registration at King's each student will be required to supply three pictures. These should be approximately one inch by one and one-half inches.

LABORATORY CHARGE

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

REFUND OF FEES

Within two weeks of registration date a student may retire from a class or course for which he was 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 at Dalhousie, stating date and reason of withdrawal. A student withdrawing from the University must report personally to the Dalhousie Business Manager before any refund of tuition fees will be considered.

N.B.—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.

A student changing from full-time to part-time status, with the approval of the Dean of the Faculty concerned, will be eligible for an adjustment in fees for the remainder of the session.

Entrance Requirements

In order to be admitted to a regular course leading to a degree or diploma in the Faculty of Arts or Science a student must have completed the Nova Scotia Grade XII (or equivalent) with a pass (50%) and an average of not less than (60%) in the following five subjects: (1) English, (2) Mathematics (Algebra, Trigonometry and Co-ordinate Geometry), (3) A language other than English, (4), (5) two from Physics, Chemistry, Biology, Geology, Geography, History, Ancient and Modern Languages.* Certificates must be presented for appraisal before September 1. Possession of minimum requirements does not automatically ensure admission.

In **exceptional** cases students not fulfilling the above requirements may be admitted with credit for complete matriculation.

CERTIFICATES OF MATRICULATION

Satisfactory marks in any of the subjects listed above will be accepted as credit towards the entrance requirements

*It is recommended that students planning an Arts course include two foreign languages and those planning a Science course include Physics and Chemistry.

if such marks are certified by any of the following documents:

- (a) Certificates of the Common Examination Board of the Atlantic Provinces.
- (b) High School Provincial Certificates of Grade XII of Nova Scotia, issued by the Department of Education of the Province of Nova Scotia.
- (c) Equivalent Certificates issued by Education Departments of other Provinces.

Equivalent Certificates are the following:

- (1) Grade XII in the provinces of Manitoba, Saskatchewan and Alberta.
- (2) Grade XII or first year Memorial in Newfoundland.
- (3) Grade XII or McGill Senior Matriculation in Quebec.
- (4) Grade XIII in Ontario and British Columbia.
- (5) Grade XIII in New Brunswick. (In exceptional circumstances well qualified students from Grade XII may be considered for admission.)
- (d) Third Year Certificates issued by Prince of Wales College, Charlottetown, Prince Edward Island. (In exceptional circumstances well qualified students from Grade XII may be considered for admission)
- (e) Certificates of Matriculation Examinations taken at recognized Universities.
- (f) Certificates similar to the above issued by University or other official examining bodies, where found adequate.

TRANSFER STUDENTS FROM CANADIAN UNIVERSITIES

Students who have been admitted at the Junior Matriculation level to other universities in Canada may be accepted at Dalhousie and King's as meeting the matriculation requirements provided that they have completed successfully one complete year of university work, including one full year of Mathematics and one full year of English.

STUDENTS FROM ABROAD

General

Certificates will be evaluated in terms of the general entry requirements.

Students whose native language is not English must pass either the English proficiency examination of the University of Cambridge, England, or the English language test of the University of Michigan, Ann Arbor, Michigan, U.S.A. Students should apply directly to these institutions for information.

Specific

U.S.A. First year university standing (minimum of 30 semester hours) from accredited institutions of higher learning; standing in Mathematics and English will be important considerations for admission. A United States high school graduation diploma alone will not admit a candidate to any course, but consideration may be given to exceptionally well-qualified students on the basis of high CEEB scores or advanced placement work.

U.K., West Indies, West Africa. G. C. E. with standing in at least 5 subjects, of which at least 2 must be passed at advanced level; or 4 subjects of which 3 must be passed at advanced level (Mathematics and English are imperative at least at ordinary level).

Hong Kong. G. C. E. as above or University of Hong Kong Matriculation Certificate on same basis as G.C.E.

India and Pakistan. Bachelor's degree with first or second class standing from an approved university, or first class standing in the Intermediate examinations in Arts and Science, provided the candidate has passed at the university in English, Mathematics and a language other than English.

ADMISSION WITH ADVANCED STANDING

Students from recognized Junior Colleges who present satisfactory certificates may receive credit on admission for a maximum of five university classes, making it possible for them to complete the requirements for a General Degree in two years. This recognition is regularly offered to Prince of Wales College in Charlottetown, P.E.I., to the Convent of the Sacred Heart in Halifax, and to the Nova Scotia Teachers' College in Truro.

Faculty of Arts and Science

The Academic Year begins September 18, 1967,
and ends May 15, 1968

ADMISSION

From September, 1966, admission to the Faculty of Arts and Science was from Senior Matriculation only.

The attention of students entering the Faculty of Arts and Science for the first time, is called to the fact that the registration for such students takes place on September 11th and 12th.

Entry to some classes is limited and late registrants may not be able to enter the class of their choice.

All students entering King's College in Arts, Science, Pre-Medicine, Pre-Dentistry, and Pre-Law 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 Commerce or Education or Pharmacy or the degree of Doctor of Medicine and are pursuing a course towards a Master's degree or the degree of Doctor of Philosophy.

Undergraduates are students who 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. No class taken on 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**.

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 essentially the last year of the degree course.

Persons seeking admission *ad eundem statum*, in making application, must 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.

Place of Residence of Students

For the purpose of admission to the University the place of residence of a student is the place where he is domiciled. This is normally presumed to be the place (country, province, etc.) where the home of his parents or guardian is located. When a student registers at the University for the first time his place of residence is determined by the Registrar and entered in the records. The place then determined remains recorded as his place of residence throughout his attendance at the University unless he takes steps that satisfy the Registrar that he has established a place of residence elsewhere.

GENERAL FACULTY REGULATIONS

Admission to Classes**

1. No student shall be admitted to a class until he has satisfied the preliminary requirements.

* 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.

**Late Registration. Students who do not register on the proper day are warned that they may not be able to obtain places in some classes for which size limits have been set.

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, and may not be exceeded without written permission from the Committee on Studies. Such permission will not normally be granted to any student who is in his first year of study or to any student who, in the preceding academic year, has failed any class or had an average mark of less than 60%.

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.

4. If a student wishes to withdraw from a class, he must notify the Office of the Registrar in writing **not later than 1 December**; after this date the student will be held responsible for all the classes for which he is registered and they will be counted as classes taken for attendance.

5. At the beginning of January the Committee on Studies will review the results obtained by each student. Any student who has not shown reasonable proficiency in the Christmas examinations may be required to withdraw from the university for the remainder of the session or to reduce the number of classes he is taking.

6. Students requiring to change a course or class for which they have registered must do so within one week of the first day of classes in September. The student must complete the appropriate application form, which must be approved by the instructor of the class which the student wishes to enter. After the first week, the student must pay a fee for each change and must obtain the approval of the instructors both of the class which he wishes to drop and of the class which he wishes to enter. No changes may be made after 16 October.

7. A student who fails to obtain a mark of at least 15% in a class at the Christmas examinations is required automatically to discontinue attendance in that class.

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 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 the field or laboratory work, and in the various examinations, are taken into consideration. A student 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 and can gain credit only by repeating them.

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

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 credit for classes passed as a result of sup-

plemental examinations. (NOTE—Engineering students must pass in at least 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 a student is inadmissible at Dalhousie.

7. A student who returns to the University after a year's compulsory absence from Dalhousie-King's or any other University, through previous failures must pass in 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 at this University in the last year of their degree course (except in the case of students registered in affiliated courses who will be registered in the Faculty of Law, Medicine, or Dentistry at Dalhousie).

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 re-admission on academic grounds at the other university.

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

11. A student possessing advanced knowledge of a subject which he has acquired otherwise than at a university, will be encouraged to begin his studies in that subject at a level appropriate to his knowledge, as determined by the Department concerned, and will be exempted from any classes which are normally prerequisites for the one to which he is admitted. However, the student must substitute for the exempted classes an equal number of other classes, not necessarily in the same subjects (i.e. he must complete at the university the full 15 or 20 classes required for a General or an Honour degree).

12. Up to five credits from summer school and correspondence classes may be accepted towards the requirements for a degree, not more than two of them by correspondence. Such classes must have been passed at an adequate level and can be accepted only if they are closely equivalent in content and scope to classes normally given at Dalhousie-King's.

13. No student may take more than one summer school class for credit in any one year. Exceptions will normally be granted by the Committee on Studies only in respect of attendance at a university which operates a trimester system or its equivalent. In all cases, permission must be obtained **in advance**, following the procedure detailed below. (In some cases, two one-semester credits may be allowed to count as one full credit).

EXAMINATIONS

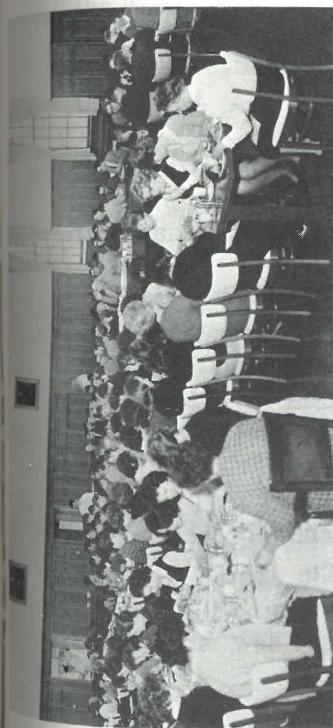
Credit for Non-Dalhousie Summer Classes

Students wishing to take, at a university other than Dalhousie, a summer-session class to be counted for credit towards a King's-Dalhousie degree must:

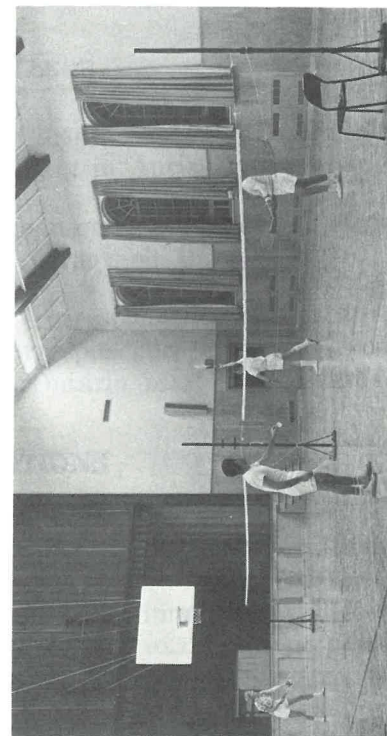
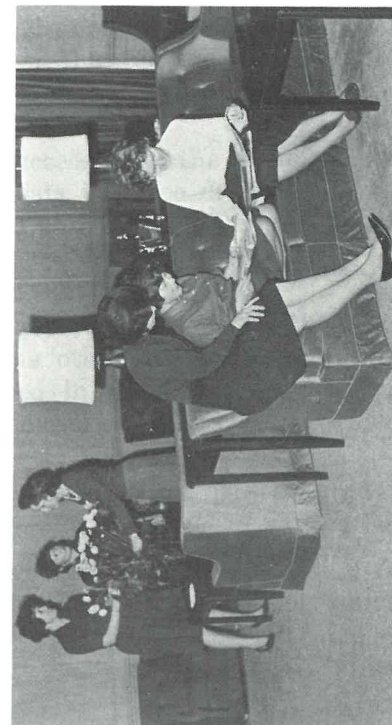
- (1) Obtain an application form from the office of the Registrar at Dalhousie University;
- (2) Obtain a summer session calendar from the university to which he hopes to go;
- (3) Make application to the head of the department concerned at Dalhousie University and submit to that department the calendar, indicating the class he wishes to take (alternatives should be indicated where possible).

When a decision has been reached, the department will pass the application to the Registrar's Office and the student will be notified directly by that office of the department's decision. If the decision is favourable, the receiving university will be so advised by the Registrar's Office.

The latest date on which application can be made is **15 March** and students are advised to make the necessary



The life of a college invariably centres around its buildings and its rooms and meeting places. The spiritual, social, academic and physical life at King's is designed to produce a greater development of the individuality and ability of each student.



arrangements earlier than this as many summer schools close their applications for admission early in April.

No student may take more than one summer school class for credit in any one year. (See paragraph 13 on p. 48).

Similar regulations relate to correspondence classes and, at the present time, only the correspondence classes offered by Queen's University, Kingston, Ontario, may be considered.

EXAMINATIONS

Sessional and Class Examinations

In all classes, at least two examinations (or their equivalent) 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 will 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

1. A student who fails to secure a position on the Pass List in a class in which he has otherwise fulfilled the requirements in class work stated in pages 46-48 may be allowed the supplemental examination in that class provided that:

- (i) That he has obtained a mark of not less than 40% in the final examination in that class.
- (ii) He has obtained an average mark of not less than 50% in the examinations in the classes for which he was registered.

2. Supplemental examinations for registered students are held only in August of the year in which the Spring examinations were written. They may not be deferred.

3. A student who fails to pass the supplemental examination can obtain credit for that class only by repeating it.

4. No more than one supplemental examination may be written by any student on the work of any one year.

5. The supplemental examination may, at the discretion of the department concerned, constitute the same proportion of the final mark as did the spring examination in the original class.

6. No student may write both a supplemental examination and an examination at the end of Summer session in the same class in the same year.

7. No supplemental examinations are allowed for classes taken at Summer session.

8. No more than three passes obtained as a result of supplemental examinations may be counted towards a degree.*

Special examinations may be granted to students in case of genuine illness, supported by a medical certificate, or in other unusual or exceptional circumstances. Medical certificates must be submitted at the time of the illness and will normally not be accepted after a lapse of one week from the date of the examination.

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 July 12, the fee (see p. 38) to be remitted with the notice. Students wishing to write at outside centres must apply by July 8.

Minimum Standing for a General Degree

In order to qualify for the award of a General Degree,

* Students registered and continuing under "old regulations" may count up to five such passes for credit. (See p. 52).

candidates must have obtained a minimum of ten points on the fifteen classes required. Points are awarded for each class as follows:

	Class Marks	Points
A	(80 - 100%)	3
B	(65 - 79%)	2
C	(56 - 64%)	1
D	(50 - 55%)	None

Note that, while a pass is recorded for a D grade result, no points are given.

This regulation does not apply to students registered under "old regulations" in 1965 or earlier.

A General degree will be awarded "**With Distinction**" to a student who has achieved an aggregate of 40 points in the 15 classes taken for his degree (or a proportional figure if he has taken more than 15 classes).

Minimum Standing for Honour Degree

Students in Honour courses are expected to maintain an average of at least 60% in each year of study and, if they fail to do so, may be required by the Committee on studies to transfer to a General degree programme.

Counting of Classes Towards Two Undergraduate Degrees

A student who already holds one undergraduate degree (B.A., B.Sc.) and who wishes to gain a second undergraduate degree must fulfil the following requirements:

- (i) Only classes on the 100 and 200 levels may be carried forward for credit;
- (ii) Of these, only classes that are applicable to the course for the second degree may be counted for credit;
- (iii) Each applicable class must bear at least one merit point in order to receive credit (i.e. be over 55%);
- (iv) A new major field of concentration must be chosen.

DEGREES AND COURSES

From September, 1966, admission to the University was from Senior Matriculation only. Students registered at Dalhousie University in 1965 or in earlier years will continue under the degree and course regulations set out in the Calendar in the year of their registration, except that no student may continue under **old regulations** after August 1970. A student whose studies have been interrupted for more than one year will be required to seek readmission as if he were a new student or a transfer student and will be required to enrol under the regulations for the new degree and course programmes.

The regulations relating to the course requirements under **old regulations** will be found as an appendix to this chapter on page 61.

All students will be bound by the **General Faculty Regulations** set out in the current Calendar, except that students continuing their studies under **old regulations** will retain the privilege of being allowed to count up to five classes passed by supplemental examination for credit towards their degree and will not be bound by the **point system** of minimum standing for a General degree.

Transfer From the Old to the New Curriculum

- (i) A student who entered the University with Junior Matriculation and has FIVE university credits (including Mathematics, English and a foreign language) may use all of these credits as if they constituted Senior Matriculation, and may enter the **First Year** of a General or Honour degree under the new regulations.
- (ii) A student registered under the **old regulations**, who has completed a period of not less than TWO years of full-time study after Junior Matriculation and has university credits which together meet the equivalent of Senior Matriculation (as in (i) above), **and** essentially all the requirements of the first year of the new Honour course which he wishes to enter may, on the recommendation of

the Department concerned, be admitted by the Committee on studies to the new Honour programme. (Senior Matriculation passes which were not granted university credit on admission may not be counted for reevaluation except in the case of Senior Matriculation science passes which carried a mark of not less than 75%).

- (iii) Students registered under **old regulations** who have already met the requirements of (ii) above and who have, in addition, credits such as to bring their total standing to the equivalent of the first TWO years of a new Honour programme may, on the recommendation of the Department concerned, apply to the Committee on Studies for admission to the new Honour programme. However, no student may graduate with an Honour degree without completing at least ten credits after admission by the Committee on Studies to the new Honour programme.

Courses are prescribed leading to the degree of Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.).

The courses for General B.A. and B.Sc. degrees extend over three years and for the Honour degrees over four years. The various Honour programmes offered by the Faculty are described in detail in the section **Classes of Instruction** where each Department lists the classes offered and the sequence and pattern of courses required for the Honour degree. Students with high academic standing are urged to consider registering for an Honour course, and to consult with those Departments in which they might wish to engage in Honour studies. An Honour degree, or its equivalent, is normally required for admission to the Faculty of Graduate Studies.

Numbering of Classes

Classes are numbered in order to indicate their general level and to suggest the year of study in which they might first be taken. Classes in the series 100+ are introductory and can usually be taken by fully matriculated students without any special prerequisites. Completion of a 100-level class is normally a prerequisite for admission to further classes in the subject. Classes numbered in the 200+ series are

second level (second year) classes, 300+ third level and 400+ fourth level. Classes numbered in the 500+ and 600+ series are normally regarded as graduate classes; however, some may be open to senior undergraduates. Classes numbered in the 250+, 350+ and 450+ series are open only to Honours students and may not be taken by students in the General Degree programmes, except with special permission.

Classes with numbers below 100 do not carry credit in the new degree programmes but may be prerequisites for entry to credit classes for students whose matriculation backgrounds are deficient; some of these classes are credits under the **old regulations** which apply to students registered in 1965 or earlier years.

A table showing the relationship between the new numbers and those given in the 1965-66 Calendar will be found at the end of the list of Classes of Instruction.

Subject Grouping for Degree Courses

In the curriculum, subjects offered as essential parts of the degree programmes are grouped as follows:

A	B	C	D
French	Classics	Economics	Biology
German	Drama	Political Science	Chemistry
Greek	English	Psychology	Geology
Hebrew	History	Sociology	Mathematics
Latin	Philosophy		Physics
Russian			
Spanish			

Specific regulations indicate the minimum number of classes which must be selected from each group.

Classes are offered also in other subjects, which may be taken as electives where no particular group is specified in the requirements. These subjects are:

Art History 101, 102, 103.

Music 101, 102.

Hebrew 101, 202, 303.

Education 101, 102. (For class descriptions see Dalhousie Calendar pp. 123-4).

Commerce 100. (See Dalhousie Calendar 1967-68).

Religion 100.

Classes within the Groups may also be taken as electives, those in Groups A, B, and C being termed "Arts electives" and those in Group D "Science electives".

General Course for the General Bachelor of Arts'

The General Bachelor of Arts degree requires 15 classes.

1. **First year requirements** (common to General and Honour courses):

Every student planning to take a B.A. degree will in his first year take five classes as follows: one class in each of groups A, B, C and D, together with one class chosen from any group. (But, see 3(d)).

2. **Requirements for the second and third years:**

The ten classes making up the course for the second and third years shall consist of:

- Six classes beyond the 100 level in two subjects, one of which must be declared by the student as his **major** area of concentration and the other his **minor**.
- Four classes, normally in subjects other than the two offered to satisfy requirement 2(a) above, at least one of the four to be beyond the 100 level in the subject

1. For Honour courses see Classes of Instruction where each Department gives the contents of its Honour programmes.

2. The designation of a **major** is intended to bring students into closer contact with the departments concerned and with one another, and to assist departments in giving such students guidance in designing their programmes.

treated¹. The subjects may be selected from Groups A, B, C and D on page 55, or from Art History, Music, Hebrew, Education 101 or 102, Commerce 100, Religion 100 in so far as the Overall Requirements permit.

3. Overall requirements.

The fifteen classes making up the overall course for the General B.A must include:

- (a) One class in English, which must be taken in the first or second year of study².
- (b) One class in group A. Students making progress in a language begun for the first time at the University are strongly advised to take a second class in the same language in order to consolidate what they have learned.
- (c) At least one class from each of two subjects in Group B other than English, and at least one class from each of two subjects in group C.
- (d) If a science class was not passed in Senior Matriculation, one class from Physics, Chemistry, Geology or Biology must be included among the fifteen taken at the University. If a science class was passed as part of the Senior Matriculation course, the group D requirement stated for the first year may be waived.

For details of classes in the various departments, see Classes of Instruction, page 63.

An Honour class may be taken by students who are not in an Honour course, if approved by the Department.

1. Students who wish to offer under section 2(a) p. 55, a subject begun only in the second year, may, by exception, offer the introductory class in that subject as one of the four classes required in section 2(b) p. 55.
2. Students who have obtained a grade of 80% or better in Senior Matriculation English are offered the option of taking a special examination in which the grading will be of the same standard as for end-of-year performance in the basic university class in English. Application for this examination should be made to the Registrar not later than 1 September in the year of intended admission. If the student obtains a grade of 65% or better in this examination, he may elect to substitute some other class for this basic class in English. The class substituted may be in any subject listed in groups A,B,C and D (including English), or in Art, History, Music, Hebrew, Education 101 or 102, Commerce 100, Religion 100).

Lists of classes chosen by students must be submitted to the Registrar's Office for approval not later than Monday, September 25, 1967.

All students contemplating entry to the teaching profession after graduation are requested to consult the Head of the Education Department concerning their programme of study before registration.

General Course for Bachelor of Science¹

1. First year requirements (common to General and Honours courses):

Every student planning to take a B.Sc. degree will in his first year take five classes as follows: namely, two classes in Group D, one class in Group A and one class in either Group B or Group C, together with one class chosen from any Group.

2. Requirements for the second and third years:

The ten classes making up the course for the second and third years shall consist of:

- (a) Six classes beyond the 100 level in two subjects chosen from Biology, Chemistry, Geology, Mathematics, Physics, Psychology, Engineering.
- (b) Four classes normally in subjects other than the two offered to satisfy requirements 2(a) p. 55, at least one of the four to be beyond the 100 level in the subject treated². The subjects may be chosen from Groups A, B, C and D above; or from Art History, Music, Hebrew, Education 101 or 102, Commerce 100, in so far as the Overall Requirements permit.

3. Overall requirements.

Any B.Sc. programme must include at least one class in Mathematics, one in English³ and one in another language.

1. For Honour courses see Classes of Instruction where each Department gives the contents of its Honours programmes.
2. Students who wish to offer under section 2(a), p. 55, a subject begun only in the second year may, by exception, offer the introductory class in that subject as one of the four classes required in section 2(b).
3. See footnote 2, p. 56.

Honours Courses

Students of ability and ambition are urged to take a course leading to the Bachelor's degree with Honours. The course entails: (a) a concentration in selected studies; (b) a number of advanced courses; (c) a higher quality of work than that for the General Bachelor's degree. Although the regulations for the first year of study are the same for both General and Honour courses, it is desirable that the student should embark upon the particular programme best suited to the Honour course he wishes to follow. **Students considering an Honour course are advised to consult as soon as possible with the Departments in which they may wish to do their major work, preferably before their first registration.**

The following are general rules relating to Honours courses:

1. A student may obtain Honours in four years from Matriculation.
2. Honour students must be accepted by the department concerned. Their whole plan of study must be under the supervision of that department. (Formal application for admission of a student by the Faculty to an Honour course must be made by the head of the department concerned, in triplicate, on forms that are available in the Registrar's Office).
3. The various Honour Programmes are set out in the section of the Calendar headed "Classes of Instruction". It will be observed that in all cases the Honour Programmes satisfy the requirements for the General degree so that a student may transfer from the Honour to the General Programme without serious inconvenience.
4. Twenty classes are needed for the B.A., B.Sc. degree with Honours. A student must pass a comprehensive examination covering his Honour work at the end of his course and he must make an average of not less than 65% in the required classes of his major and minor field.
5. In order to obtain **First Class Honours** a student must pass the classes in his major and minor field (including any comprehensive examination) with an average of at least 80%.

Major Honour Programmes and Combined Honour Programmes

1. The regulations for the first year of study are the same as for the General B.A. or General B.Sc. degree.
2. (a) Honours in a **Major Programme** are based on the general requirement that the 15 classes beyond the first year of study comprise:
 - (i) Nine classes beyond the 100 level in one subject (the major subject);
 - (ii) Two classes in a minor subject satisfactory to the major department;
 - (iii) Four classes not in the major field.
 (b) Honours in a **Combined Programme** are based on the general requirement that 15 classes beyond the first year of study comprise:
 - (i) Eleven classes beyond the 100 level in two allied subjects, not more than seven classes being in either of them;
 - (ii) Four classes in subjects other than the two offered to satisfy requirement 2(b) (i) above.
3. The "Overall requirements" are the same as those for the General B.A. and General B.Sc. degrees respectively.

Details of specific Honour programmes will be found under departmental listings of Classes of Instruction on page 63 in this Calendar. It may be noted that there are occasional minor departures in detail from the general regulations given above; these programmes have been given specific approval by the Faculty of Arts and Science.

Social Work

Students looking forward to professional training at the Maritime School of Social Work should include in their undergraduate curriculum a choice of classes from such fields as sociology, psychology, political science, anthropology, biology, economics, history, and philosophy, with special emphasis on sociology, psychology and political science. It is in the student's interest that from one-third to one-half of this undergraduate curriculum be made up of these classes.

APPENDIX

REQUIREMENTS FOR DEGREES AND COURSES UNDER OLD REGULATIONS

Students registered before September, 1966, will normally continue under "Old Regulations". For their benefit, the main requirements are set out below. (New numbers are shown in brackets, the old numbers remaining in the text itself).

Courses are prescribed leading to the degree of Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.).

ORDINARY COURSE FOR BACHELOR OF ARTS

The ordinary course of study prescribed for the degree of Bachelor of Arts consists of the following twenty classes:

- (i) Two classes in English; one class in Mathematics; three classes in one foreign language, or Greek A, Greek 1 (100), and Hebrew 2(202).
- (ii) One class in Biology, Chemistry, Geology, or Physics.
- (iii) Any two of: a university class in European History, Philosophy 1 (100), Psychology 1 (100)*
- (iv) Any one of: Economics 1(100), Political Science 1(100), Sociology 1 (100), Anthropology 1 (100 or 102, but 102 does not admit to advanced classes).
- (v) Classical Literature in translation or a class in Latin or Greek beyond Latin 1 (099) or Greek 1 (100). A student who has elected Latin or Greek to satisfy the language requirements of Section (i) may substitute for this class one additional class in Sections (vi) or (vii).
- (vi) Six classes which require a university class as prerequisite selected from not more than two of the following departments:

Biology; Chemistry (including Biochemistry); Classics (Greek and Latin); Economics (including Sociology and

*Students looking forward to securing a teacher's license should select Psychology.

Anthropology); English Language and Literature; Geology; German; History; Mathematics; Philosophy; Physics; Political Science; Psychology; Religious Studies; Romance Languages (French, Spanish); Russian.

- (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. Students taking affiliated courses may substitute the first year of Law or Medicine or Dentistry, or four classes from the Department of Commerce, for **three** elective classes. Hebrew 1 (101) may count as a credit in this Section.

For details of classes in the various departments, see Classes of Instruction, page 63.

An Honour class may be taken as an elective by students who are not in an Honour course, if approved by the Department.

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 **three** electives of group (vii) above. (1) Law. The classes of the First Year, provided conditions are satisfied for entry into Second-Year Law. (2) Medicine and Dentistry. The classes of the First Year.

ORDINARY COURSE FOR THE BACHELOR OF SCIENCE

The ordinary course of study prescribed for the degree of Bachelor of Science consists of the following twenty classes:

- (i) Two classes in English. Two classes in French or in German or in Russian.
- (ii) One class in Mathematics and one class in each of any three of the following: Chemistry, Physics, Biology, Geology.
- (iii) One class in **one** of the following: Classical Literature in translation, English, History, Economics, Political Science, Philosophy, Psychology, Sociology, Anthropology,

*Not applicable after 1968.

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).

- (iv) Seven other classes which require a university class as prerequisite selected from not more than three of the departments of Science, Mathematics, and Psychology.
- (v) Four electives of which Mathematics 2 (100), if not taken in Section (iv), must be one.

Students taking affiliated courses may substitute the classes for the first year of Medicine or Dentistry for three classes in this group.

AFFILIATED COURSES

An undergraduate looking forward to the study of Medicine or Dentistry may offer the classes of the first year of Medicine or Dentistry in place of three electives in group (v) above.

Times and locations of Lectures and Laboratories will be published in the Arts and Science Time-Table, available in August.

Classes of Instruction

ART HISTORY

Special Lecturer.....Donald C. MacKay

Classes Offered

101. Introduction to the History of Art.

Lect.: 2 hrs.

An analysis of the styles of the main periods in the History of Western Art, and the relationship of these to the artistic, social and scientific environments.

Text: H. W. Janson, History of Art.

*102. The Art of the Renaissance

A study of European painting, sculptures and architecture through the major artistic personalities of the period.

*103. The Art of the 19th and 20th Centuries

A study of the development of painting, sculpture and architecture from Neoclassicism and Romanticism to the art of the present day.

Key to Class Numbers: Art History

New	Old
101	Survey
102	1
103	2

* Not offered in 1967-68.

BIOLOGY

Professors.....K. E. von Maltzahn (Head of Dept.), A. C. Neish
Professor (Oceanography)G. A. Riley
Associate Professors....M. L. Cameron, I. A. McLaren, A. Ruthmann
 O. P. Kamra, L. C. Vining, L. M. Dickie
Associate Professors (Oceanography).....C. M. Boyd, E. L. Mills
Assistant Professors.....R. Brown, J. Farley, E. T. Garside
 L. A. Hanic, M. J. Harvey, W. C. Kimmins, M. Ross
 A. H. Wehrmaker
Assistant Professor (Oceanography).....W. D. Watt

The program in Biology is designed to provide the student with a basic training in the biological sciences which may serve as a preparation for graduate and professional work in Biology, Medicine, Dentistry, Pharmacy, the Health Professions and Education. A student looking forward to Biology as his main study is asked to consult the Department early in his course so that a proper plan can be worked out.

Art students with no senior matriculation in Sciences may satisfy their science requirements by taking Biology 100.

Science students will take Biology 101. Science students who have an exceptionally good background in high-school biology are invited to see the Head of the Department; if their preparation has been sufficiently good they may be allowed to proceed to Biology 201 or 202 in their first year. (They will not receive University credit for matriculation Biology, but will have the advantage of one year and one class over the non matriculant). (See paragraph 11, page 47).

The Department offers courses leading to the general degree in Arts and Science in Biology, a combined honour programme in Arts or Science and a major honour programme in Science in Biology.

All students should remember that if they enter Graduate School they will be expected to have a reading knowledge in one or more of French, German and Russian.

General B.Sc. in Biology

Students reading for the general B.Sc. degree, majoring in Biology, should arrange their classes in consultation with the Head of the Department.

General B.A. in Biology

Students who plan to read for a Bachelor of Arts degree in Biology must obtain permission from the Department before registration, and satisfy the requirements of the general B.A. degree, and should arrange their classes in the following pattern:

- YEAR I** Biology 101, one other Introductory Science (preferably Chemistry 100) or Mathematics class, one foreign language, English or other Humanities, one Social Science.
- YEAR II** Biology 201 and 202, English (if not taken in Year I), otherwise another class from the Humanities or Social Science group, one other Humanities class, one Social Science.
- YEAR III** Two of Biology 301-305 (or one of Biology 301-305 and one other Biology 300 class); one additional class in the minor Science or Mathematics, one additional class in Science or Mathematics, one class not in Science or Mathematics.

(Prospective pre-medical students are advised that many medical schools prefer that candidates obtain a sound background in basic science and arts subjects. In addition to the courses mentioned above, the following classes may be recommended: Biology 311, 323, 324, 325 and 440.

Honours Degree in Biology

Students reading for a Bachelor of Science degree with Honours in Biology must satisfy the general requirements for Honours and arrange their course program as early as possible in consultation with the Head of the Department. The following course program is recommended (two of Biology 311-313 may be taken instead of Biology 202 or two of Biology 321-323 instead of Biology 201 but only with permission of Department).

Major Programme.

- YEAR I** Biology 101, Chemistry 100, Mathematics 100 or Physics 100 or Geology 100, one foreign language, English 100.
- YEAR II** Biology 201 and 202, Mathematics 100 (if not taken in Year I), otherwise one of Physics 100 or Geology 100,

one other class in Science or Mathematics, a second class in the foreign language of Year I or a class in the Humanities or Social Sciences.

YEAR III Three classes of the Biology 300 group, one class in Mathematics or Science beyond the 100 level, one class from Groups A, B or C.

YEAR IV Four classes from the Biology 300 and 400 classes, of which two should normally be Biology 480 and Biology 490, one class in the minor field.

Honour students must pass a comprehensive examination at the conclusion of their period of study.

Combined Programmes.

Students interested in taking Honours in Biology and another Science as a combined programme and those interested in taking Honours in Biology and another Arts subject as a combined programme should consult the Head of the Department, through whom a suitable course of study can be arranged.

For Psychology and Biology, combined programme see under *Department of Psychology*.

Classes Offered

For students having entered university in 1966 and thereafter, Biology 201 and 202 are normally prerequisites for all other Biology classes beyond the 200 level.

100. Biology.

J. Farley & M. J. Harvey

Lect.: 3 hrs.; lab.: 3 hrs.

A terminal introductory class designed primarily for Arts students not intending to take further classes in Biology. Arts students, wishing to take further classes in Biology, may present this class in place of Biology 101. Lectures are given in the Chemistry Theatre, laboratory work in the Forrest Building.

101. Principles of General Biology.

M. L. Cameron & other members

Lect.: 3 hrs.; Lab. 3 hrs.

Class designed for Science students. A discussion of criteria of living things in general and their analysis with emphasis on principles and topics of contemporary interest.

201. Principles of Animal Biology.

I. A. McLaren, A. Ruthmann, A. H. Wehrmaker

Lect.: 3 hrs.; Lab. 3 hrs.

Comparative study of diversity of animal structure and function; their behavior as individuals and in populations; their evolution in the light of solutions to specific biological problems. Normally required for all students in second year.

202. Principles of Plant Biology.

K. E. von Maltzahn

Lect.: 3 hrs.; Lab.: 3 hrs.

Comparative study of diversity of plant structure and function; plant evolution in the light of solutions to specific biological problems. An introduction to Micro-biology is included here. Normally required for all students in second year.

301. Genetics.

M. D. Ross & other members

Lect.: 2 hrs.; lab.: 3 hrs.

Introduction to the study of inheritance in animals and plants.

302. General Physiology and Chemical Biology.

W. C. Kimmins

Lect.: 2 hrs.; Lab.: 3 hrs.

Physio-chemical bases of function in organisms.

303. Cellular Biology.

A. Ruthmann

Lect.: 2 hrs.; lab.: 3 hrs.

Study of cells and cell systems with an introduction to microscopic techniques, including quantitative microscopy and electronmicroscopy as well as cyto- and histochemical techniques.

304. Developmental Biology.

A. H. Wehrmaker

Lect.: 2 hrs.; lab.: 3 hrs.

Patterns of animal (i.e., Embryology) and plant development; growth, differentiation and morphogenesis and their analysis.

305. General Ecology.

E. T. Garside & M. J. Harvey

Lect.: 2 hrs.; lab.: 3 hrs.

Relations of plants and animals to the physical and chemical features of environment. Study of populations.

311. Bacteriology, Virology and Mycology

R. Brown

Lect.: 2 hrs.; lab.: 3 hrs.

Introduction to viruses, bacteria and fungi, with reference to their structure and function in relation to the environment.

312. Phycology

L. A. Hanic

Lect.: 2 hrs.; Lab.: 3 hrs.

Study of freshwater and, particularly, marine algae with emphasis on morphology, taxonomy, life histories and ecology. Laboratory work includes making a collection of 100 of the commoner local seaweeds and a thorough study of one organism requiring a brief exploration of methods in cytology, culture and ecology.

313. Vascular Plants. (1968-69)

M. J. Harvey

Lect.: 2 hrs.; lab.: 3 hrs.

Classification, experimental taxonomy and evolution of the higher plants.

314. Plant Physiology. (1968-69)

Lect.: 2 hrs.; lab.: 3 hrs.

A study of physiological activities of plants.

315. Plant Morphogenesis. (1968-69)

K. E. von Maltzahn

Lect.: 2 hrs.; lab.: 3 hrs.

Descriptive and experimental analysis of plant organization.

321. Invertebrates I

J. Farley & C. Boyd

Lect.: 2 hrs.; lab.: 3 hrs.

A survey of the invertebrate animal phyla, including field and laboratory studies of the local seashore fauna.

322. Invertebrates II (Entomology and Animal Parasitology)

J. Farley & A. H. Wehrmaker

Lect.: 2 hrs.; lab.: 3 hrs.

A two-section class; the first dealing with the natural history of insects and related arthropods; the second with animal parasitism as an ecological phenomenon, stressing their biological rather than medical properties.

Prerequisite: Biology 321 which may be taken concurrently.

323. Vertebrates.

E. T. Garside

Lect.: 2 hrs.; lab.: 3 hrs.

Evolution of taxonomy of the vertebrata with emphasis on comparative and contrasting aspects of the gross anatomy of living groups. (A minimum standing in previous Biology class(es) of 60% is strongly recommended).

324. Animal Physiology.

M. L. Cameron

Lect.: 2 hrs.; lab.: 3 hrs.

Prerequisite: Biology 302 which may be taken concurrently.

325. Animal Embryology. (1968-69)

Lect.: 2 hrs.; lab.: 3 hrs.

Prerequisite: Biology 304.

401. Mathematical Biology.

W. D. Watt & P. J. Wangersky

Lect.: 3 hrs.

402. History and Theoretical Foundations of Biology (1968-69)

Members of Staff

Lect.: 3 hrs.

Special Classes

See Faculty of Graduate Studies for description of classes.

404/504. **Population and Evolutionary Ecology.** I. A. McLaren

408/508. **Biological Oceanography** G. A. Riley & C. M. Boyd

410/510. **Advanced Topics in Marine Phycology (1968-69).**

L. A. Hanic

412/512. **Physiology of Marine Plants. (1968-69)** J. S. Craigie

415/515. **Biochemistry of Plants and Micro-organisms**

A. C. Neish & L. C. Vining

417/517. Practical Enzymology. (1968-69)	A. C. Neish
419/519. Advanced Topics in Microbiology. (1968-69)	L. C. Vining
421/521. Biological Effects of Radiation.	O. P. Kamra
423/523. Advanced Topics in Genetics.	M. D. Ross
440/540. Human Physiology	C. B. Weld
447/547. Influence of Chemical Agents on Living Organisms	J. G. Aldous
480. Special Topics in Biology.	Members of Staff

A lecture and seminar class in advanced aspects of specialized subjects in Biology. With permission of Department only.

490. Undergraduate Research for Honour Students.

590. M.Sc. Research.

690. Ph.D. Research.

Biological Journal Club. Lectures and presentation of papers by members of staff and senior students. All Honour and Graduate students are required to attend.

Summer Classes. Students who complete creditably any of the classes in the curriculum of the marine biological laboratory, Woods Hole, Massachusetts, may, on the recommendation of the Department of Biology, present them for credit toward a degree.

Graduate Studies

Graduate studies leading to both the M.Sc. and Ph.D. degrees are offered by the Department. Graduate students may specialize in the following areas of Biology:

- (1) Genetics and Cytology
- (2) Cellular Physiology and Chemical Biology
- (3) Comparative Physiology and Behavior
- (4) Systematics and Evolution
- (5) Developmental Biology
- (6) Ecology

Candidates for graduate degrees must satisfy the general requirements of the Faculty of Graduate Studies. Interested students are referred to the appropriate part of the Dalhousie Calendar.

Key to Class Numbers: Biology

New	Old	New	Old	New	Old
100	101	314	223	415/515	315
101	102	315	224	417/517	317
201	—	321	} 241*	419/519	311
202	—	322		421/521	321
301	201	323	242	423/523	—
302	202	324	243	435/535	335
303	203	325	—	440/540	—
304	244*	326	—	447/547	347
305	204	401	—	480	380
311	} 221*	402	—	490	290
312		404/504	—	59 0	400
313	222	408/508	308	690	500
		410/510	—		
		412/512	312		

* New classes more extensive than old one.

CHEMISTRY

Professors.....W. J. Chute (Head of Dept.), D. E. Ryan
Associate Professors.....K. E. Hayes, O. Knop, K. T. Leffek
Associate Professors (Oceanography).....P. J. Wangersky
Assistant Professors.....G. A. Dauphinee, D. H. Davies,
 T. P. Forrest, W. E. Jones,
 R. W. Frei, D. L. Hooper

All students intending to undertake the programme for the Honour degree should consult with the Head of the Department.

Requirements for Honour Degree — Major Programme

YEAR I	Chemistry 100, Mathematics 100, Physics 110, English 100, One foreign language (French, German or Russian).
YEAR II	Chemistry 210, 230 and 240, Mathematics 200, elective I ¹ .
YEAR III	Chemistry 320, 330 and 340; Mathematics 220 or 240 or 312, elective. II ¹ .
YEAR IV	Three classes from Chemistry 400, 410, 420, 430 and 440; Physics 230 ² , elective III ¹ .

It is recommended that all students intending to study Chemistry should attempt to obtain Senior Matriculation standing in the subject.

1. It is recommended that of the electives:
 - (i) One be a language other than English (It may be an advanced class of the foreign language taken in Year I or an introductory class in a different language).
 - (ii) One be a science class which is not already taken as part of the major programme above (e.g., Biology, Physics or Mathematics).
2. Physics 230 may be taken in Year II or III if one of the electives is to be a Physics class in advance of Physics 230. The elective Physics would then be taken in Year IV.

Classes Offered

100. **General Chemistry** G. A. Dauphinee, D. H. Davies
K. T. Leffek, D. L. Hooper

Lect.: 3 hrs.; Lab.: 3 hrs.

Introductory study of atomic structure, bonding, gases, liquids, solids, solutions, acid-base theory, oxidation-reduction, chemical equilibrium, and reaction kinetics. There will be five sections as follows:

101. **(General Chemistry)** G. A. Dauphinee

This section includes science students.

Texts: Bailar, Moeller and Kleinberg "University Chemistry; Schaum's Outline Series"; "Theory and Problems of College Chemistry".

Lab.: 3 hrs.

102. **(General Chemistry)** D. H. Davies

This section includes Engineering students and Arts students with Physics.

Texts: To be announced.

Lab.: 3 hrs.

103. **(General Chemistry)** K. T. Leffek

This section includes Arts, Commerce, and Pre-Law students.

Texts: To be announced.

Lab.: 3 hrs.

104. **(General Chemistry)** D. L. Hooper

This section includes pre-professional students also taking Biology.

Texts: To be announced.

Lab.: 3 hrs.

105. **(General Chemistry)*** G. A. Dauphinee

This class is given for Dental Hygiene students.

Texts: To be announced.

Lab.: 3 hrs.

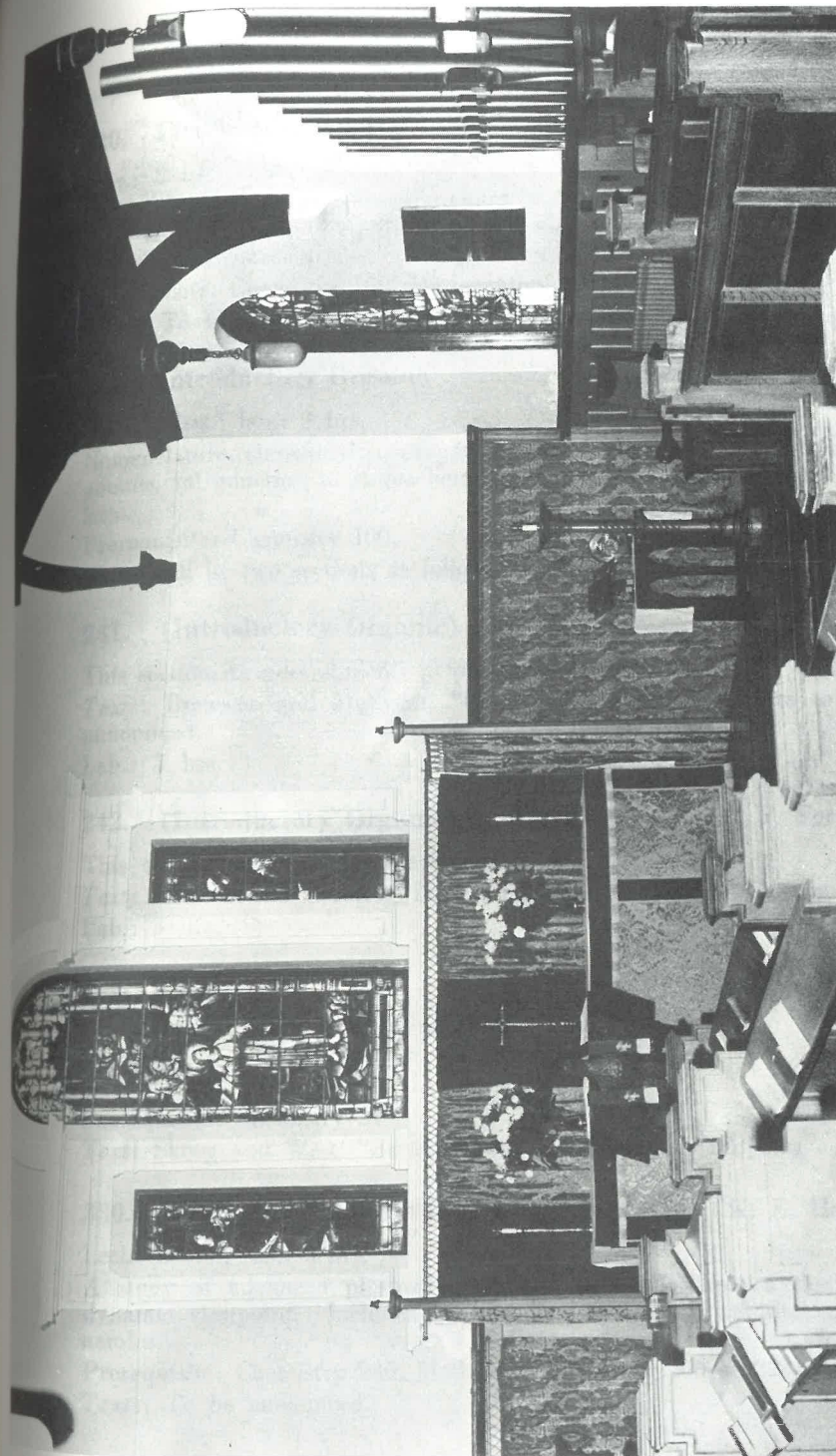
210. **Inorganic Chemistry** R. W. Frei

Lect.: 2 hrs.; Lab.: 3 hrs.

The principles of chemical behaviour and their application in the laboratory to testing, analysis and synthesis of inorganic compounds.

Prerequisite: Chemistry 100.

*Not for B.A. or B.Sc. Credit. Not a prerequisite for Chemistry 210, 230, 240.



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.

230. Physical Chemistry I

W. E. Jones

Lect.: 2 hrs.; Lab.: 3 hrs.

Fundamental study of thermodynamics, thermochemistry, electro chemistry, reaction kinetics, equilibrium, colloids, modern theories of atomic and molecular structure.

Prerequisite: Chemistry 100, Mathematics 100.

Texts: To be announced.**240. Introductory Organic**

W. J. Chute, T. P. Forrest

Lect.: 2 hrs.; lab.: 3 hrs.

Nomenclature, classification, preparation and reactions of organic compounds, introduction to stereochemistry and organic reaction mechanisms.

Prerequisite: Chemistry 100.

There will be two sections as follows:

241. (Introductory Organic)

W. J. Chute

This section includes students in pre-professional courses.

Texts: Brewster and McEwan, "Organic Chemistry". Others to be announced.

Lab.: 3 hrs.

242. (Introductory Organic)

T. P. Forrest

This section includes Science students.

Text: Roberts and Caserio "Basic Principles of Organic Chemistry".

Lab.: 3 hrs.

320. Analytical

D. E. Ryan

Lect.: 2 hrs.; Lab.: 6 hrs. first term.
3 hrs. second term.

Quantitative and Instrumental Analysis.

Prerequisite: Chemistry 210.

Text: Skoog and West, "Fundamentals of Analytical Chemistry".**330. Physical Chemistry II**

K. E. Hayes

Lect.: 2 hrs.; lab.: 3 hrs.

A study of advanced physical chemistry, primarily from a thermodynamic viewpoint. Includes an introduction to statistical thermodynamics.

Prerequisite: Chemistry 230, Mathematics 100 and 200 or 228.

Texts: To be announced.

340. Intermediate Organic

W. J. Chute

Lect.: 2 hrs.; Lab.: 3 hrs.

Identification of organic compounds and introduction to I. R. analysis. General Organic Chemistry with emphasis on heterocyclics, polynuclear hydrocarbons, alkaloids, dyes, terpenes, etc.

Prerequisite: Chemistry 242.

Text: Roberts and Caserio, "Basic Principles of Organic Chemistry".
Shriner, Fuson, and Curtin, "Identification of Organic Compounds".

400. Quantum Chemistry

Lect.: 2 hrs.

Application of modern quantum mechanics to organic and inorganic chemistry.

Prerequisite: Chemistry 230.

Texts: To be announced.**410. Advanced Organic**

O. Knop

Lect.: 2 hrs.; lab.: 3 hrs.

A study of phase equilibrium theory and structural inorganic chemistry.

Prerequisite: Chemistry 320 and 330.

Texts: To be announced.**420. Instruments in Chemistry**D. E. Ryan, R. W. Frei
P. J. Wangersky

Instrumental measurements and their application to chemical Problems.

Prerequisite: Chemistry 320.

430. Physical Chemistry IIID. H. Davies, K. E. Hayes
W. E. Jones

Lect.: 2 hrs.; lab.: 3 hrs.

A study of advanced physical chemistry from a kinetic viewpoint. Introduction to Absolute Reaction Rate Theory. Discussion of modern topics of physical chemistry with special emphasis on current research projects in the department.

Prerequisite: Chemistry 330.

Texts: To be announced.**440. Advanced Organic**W. J. Chute, T. P. Forrest
K. T. Leffek

Lect.: 2 hrs; Lab.: 3 hrs.

Discussion of applied physical methods reaction mechanisms, molecular rearrangements, stereochemistry, conformational analysis, and synthetic organic chemistry.

Prerequisite: Chemistry 340.

Texts: To be announced.**BIOCHEMISTRY**

The class Biochemistry 2 (see Faculty of Medicine) 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.

Graduate Studies

The Department offers graduate classes leading to the degrees of M.A. and Ph.D. Details relating to admission, scholarships and fellowships, requirements for the degree, classes of instruction, etc., can be found under Faculty of Graduate Studies.

Key to Class Numbers: Chemistry

New	Old	New	OLD	New	Old
100	1	240	4	420	—
101	1(a)	241	4(b)	430	—
102	1(d)	242	4(a)	440	—
103	1(b)	320	7		
104	1(c)	330	5*		
105	—	340	6		
210	2b*, 2c	400	9		
230	2a*, 2b*	410	8		

*New class more extensive than old one.

CLASSICS

Professor.....J. A. Doull, (Head of Department)
Associate Professors.....B. W. Dombrowski, M. A. Usmani
Assistant Professors.....J. P. Atherton, R. D. Crouse
Lecturer.....R. Friedrich

The Department of Classics studies the ancient world and the formation of the Christian-European tradition. On the basis of a sound knowledge of the classical languages, the Department introduces students to the history, literature and philosophy of classical antiquity. The history of the ancient Near East (including Biblical history) is also taught. Students interested therein may sometimes offer an Oriental language, with Greek, in place of Latin. The continuation of Greek philosophy in Christian times, its relation to theology and to later philosophy, are a special interest of the Department.

Of classes offered by the Department, Classics 100, 102, Classics 103 (Biblical History) and 235 (=Philosophy 235) should be of special interest to students in the General course.

**Requirements for Honour Degree
Major Programme**

Honours in Classics

- YEAR I** Greek 100 or Latin 100*; Classics 100;
1. (One from History 100 or 102 (= Classics 102), or Classics 103 (Biblical History), Philosophy 100, English 100); Social Science class (Group C);
 2. (Class in Mathematics or a Natural Science; or, if not required, *either* the remaining of Greek 100, and Latin 100*, or a second class from those listed under No. 1).
- YEAR II** Greek 100 or, if already taken, Greek 200; Latin 100 or, if already taken, Latin 200;
3. (English 100 or, if already taken, a remaining class from History 102 or Classics 103, or Philosophy 100); Second Social Science class; (History 100 or 102 or Classics 103), or Philosophy 100 or (if *both* groups have been taken under 1, 2 and 3, Latin 200 or Greek 200 (if the class has been taken in Year I) or a Classics 200 (Ancient History) class or Philosophy 235 (= Classics 235).
- YEAR III** Greek 200 or 300; Latin 200 or 300; a Classics 200 (Ancient History) class or Philosophy 235 (= Classics 235), the remaining of the history classes above and Philosophy 235 or Greek 300 or Latin 300, Greek 300 or Latin 300 or elective.
- YEAR IV** Greek 300 or Greek 301 or 302; Latin 300 or Latin 301; Greek 301 or 302 or, if taken, optional; (Latin 301 or, if taken, elective; one of a further Greek or Latin elective class, an Ancient History class of Philosophy 240 (= Classics 240).

2. Honours in Classics (Ancient Philosophy)

- YEAR I** Greek 100 or Latin 100*; Classics 100; Philosophy 100; a Social Science class; a class in Mathematics or a Natural Science or, if not required, History 100 or 102 or Classics 103, or English 100.
- YEAR II** Greek 100, or, if already taken, Greek 200; Philosophy 235 (Greek Philosophy = Classics 235); History 100 or Classics 102 or Classics 103, or English 100; Latin 100 or, if already taken, Latin 201; a second Social Science class.

*This course may still be completed within four years if neither Greek nor Latin has been taken in the First Year.

YEAR III The remaining of Greek 200 and Latin 201; Philosophy 240 (Medieval Philosophy = Classics 240); a class in Modern Philosophy; Classics 221 or 222 or 223 (Ancient History) or History 200 (Medieval History); Greek 300 or 301, if Greek 200 was taken in Year II; otherwise, elective.

YEAR IV Greek 300 or 301 or, if both have already been included, elective¹; Classics 461 (Philosophy Seminar); a class in modern Philosophy; a further class in Ancient or Medieval History.

3. Honours in Classics (Ancient History)

YEAR I Latin 100 or Greek 100², History 100; one of Classics 100 or Classics 102 or Classics 103; a Social Science class; Mathematics or a Natural Science class or, if not required, Philosophy 100 or English 100.

YEAR II Classics (Ancient History) 221 or 222 or 223 (as offered); Classics (Ancient History) 251 or 252 or 253 (as offered); Latin 200 or Greek 200; English 100 or, if taken, Philosophy 100; a second Social Science class.

YEAR III Classics (Ancient History) 222 or 221 or 223 (as offered); Classics (Ancient History) 252 or 251 or 253 (as offered); Latin 202 or Greek 301; Philosophy 100 or, if taken, Philosophy 235 or 240 (= Classics 235 or 240); History 200.

YEAR IV Classics (Ancient History) 223 or 221 or 222 (as offered); Classics (Ancient History) 253 or 251 or 252 (as offered); Latin 301 or Greek 300; History 200 or Philosophy 235 or 240 (= Classics 235 or 240); Greek 100 or Latin 100 or an elementary class in another ancient language³.

**French-Latin Combined Honours
See under Romance Languages**

**German-Greek Combined Honours
See under German**

1. At the discretion of the Department, a class in another ancient language may take the place of one of the Greek classes.
2. A student who does not take Latin (or Greek) 100 in his first year but some other foreign language may take the class in his second year. In that case a Latin (or Greek) class beyond Latin (or Greek) 200 will take the place of one Ancient History class and Medieval History (History 200) will be counted as an honours class for such a student.
3. The second ancient language may be taken in the second or third year if convenient, and at the discretion of the Department, a further class in the second language may take the place of one Ancient History class.

Classes Offered

Ancient Languages

GREEK

100. Introductory Greek

R. Friedrich

Lect.: 4 hrs.

Texts: Hillard and Botting, *Greek Primer*; Nairn and Nairn, *Greek Through Reading*.

200. Intermediate Greek

J. P. Atherton

Lect.: 3 hrs.

Texts: Plato, *Apology and Crito*; Homer, *Iliad*, VI. Grammar and Composition. Prerequisite: Greek 100.

300. Greek Poetry (1968-69).

R. Friedrich

Lect.: 2 hrs.

Either some poet or some period in the history of Greek poetry will be studied. Prerequisite: Greek 200.

301. Greek Historians (1967-68).

Lect.: 2 hrs.

Parts of Herodotus and Thucydides will be studied. Prerequisite: Greek 200.

302. Greek Philosophers (1968-69).

R. Friedrich

Lect.: 2 hrs.

Selections from the texts of Plato and Aristotle will be studied. Prerequisite: Greek 200.

Latin

099. Introductory Latin

Lect.: 3 hrs.

For students who wish to begin the study of Latin in the University, special (non-credit) classes will be provided upon request.

100. Latin Language and Literature

M. Usmiani

Lect.: 3 hrs.

Cicero's *De Senectute*, selections from Catullus and from Horace's *Odes* will be read. Grammar and Composition. Prerequisite: Senior Matriculation Latin or Latin 099.

200. The Latin Poets

M. Usmiani

Lect.: 2 hrs.

Selections from Lucretius, Propertius, Ovid and others will be read. Prerequisite: Latin 100.

201. Latin Philosophical Texts (1967-68).

J. A. Doull

Lect.: 2 hrs.

Selections from Latin Patristic and Medieval philosophers will be read. Prerequisite: Latin 100.

202. Roman Historians (1968-69).

B. W. Dombrowski

Lect.: 2 hrs.

A Study of Roman Historical Texts (Writers, Inscriptions and other Documents). Prerequisite: Latin 100.

300. The History of Roman Satire (1968-69).

M. Usmiani

Lect.: 2 hrs.

Selections from Horace, Juvenal and others will be read. Prerequisite: Latin 200.

301. The Study of Virgil (1967-68).

Lect.: 2 hrs.

Eclogues, Georgics and Aeneid. Prerequisite: Latin 200.

Near Eastern Languages.

Hebrew 101.

Hebrew 202. See under "Hebrew" in Calendar.

Hebrew 303.

*Coptic 100. Introductory Grammar and Reading of Sahedic Texts.
B. W. Dombrowski

*Coptic 200. Reading of Selections from other Coptic Dialects.
B. W. Dombrowski

*Akkadian 100. Introductory Grammar and Reading of Texts.
B. W. Dombrowski

*Arabic 100. Introductory Grammar and Reading of Texts.
J. B. Hardie

*Note: The classes in Coptic, Akkadian and Arabic are available as electives at the discretion of the Department, only in relation to the needs of particular students.

Literature, History and Philosophy

Note: The History and Philosophy classes listed below may be given credit as Classics classes, or as History or Philosophy classes, respectively.

Classics 100. Classical Literature in Translation

J. A. Doull, J. P. Atherton, R. D. Crouse

Lect.: 3 hrs.

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

Classics 102. Introduction of Ancient History.

B. W. Dombrowski, J. P. Atherton

Lect.: 3 hrs.

A course of lectures on selected topics designed to introduce students to the study of Ancient Civilization.

Classics 103. Biblical History (1968-69).

Lect.: 3 hrs.

B. W. Dombrowski, R. D. Crouse

A study of Biblical history and literature from Pre-Mosaic times to the rise of early Christianity.

*Classics 221. History of the Ancient Near East (1968-69).

Lect.: 3 hrs.

B. W. Dombrowski

An analysis of significant periods of the political and cultural history of the Near East from prehistorical times to the beginning of the Christian era.

Prerequisite: History 100 or Classics 102 or Classical Literature.

*Classics 251/551. Seminar on Problems of Ancient and Near Eastern History (1968-69).

B. W. Dombrowski

Seminar: 2 hrs.

Simultaneous to, though not depending on Course 221. Primarily for honour and graduate students. Others may be admitted at the discretion of the instructor. Prerequisite: Classics 102.

*Classics 222. Greek History (1967-68).

J. P. Atherton
B. W. Dombrowski

Lect.: 3 hrs.

A study of main features of the history of the Greek World and of Hellenism.

Prerequisite: History 100 or Classics 102.

*To be taken any time in the course of studies after completion of prerequisites History 100 or Classics 102 or Classical Literature.

Classics 252/552. Seminar on Problems of the Hellenistic Period (1967-68).

B. W. Dombrowski

Seminar: 2 hrs.

Characteristics of the Hellenistic Period will be studied in detail as warranted. Honour, graduate, and theology students only.

Prerequisite: Classics 102.

*Classics 223. Roman History (1968-69).

B. W. Dombrowski
J. P. Atherton

Lect.: 3 hrs.

A survey of the origin and development of Roman political organization and culture with emphasis on special aspects as may be determined from time to time. Prerequisite: History 100 or Classics 102.

*Classics 253/553. Seminar on the Rise of Christianity and the Roman Empire (1968-69).

J. P. Atherton

Seminar: 2 hrs.

Selected topics from the transition from Classical to Christian culture will be studied. Particular attention will be paid to the connection between religious innovation and change in political and social life and the effect of the new beliefs on literature, art and philosophy. (Primarily for honour and graduate students. Others may be admitted at the discretion of the instructor).

Prerequisite: Classics 102.

Classics 235 (= Philosophy 235). Ancient Philosophy.

R. H. Vingoe
R. D. Crouse

Lect.: 2 hrs.

A study of the history of philosophy from Thales to Plato (first term) and from Aristotle to St. Augustine. Prerequisite: Philosophy 100.

Classics 240 (=Philosophy 240) History of Mediaeval Philosophy.

R. D. Crouse

Lect.: 2 hrs.

A study of the history of Philosophy from the fifth century to the fifteenth, with special attention to Anselm, Thomas Aquinas and William Occam. Prerequisite: Philosophy 100.

Classics 461/561. Philosophy Seminar.

R. D. Crouse
J. A. Doull

Seminar: 2 hrs.

The subject for 1967-68 will be Aristotle's *Metaphysics*, with Ancient and Medieval commentaries.

*To be taken any time in the course of studies after completion of prerequisites History 100 or Classics 102 or Classical Literature.

Graduate Studies

The Department offers a M.A. programme in Classical Literature, in Ancient History and in Ancient and Medieval Philosophy. For details see *Faculty of Graduate Studies*.

CLASSICS

Key to Class Numbers: Classics

GREEK		LATIN		LITERATURE, etc	
New	Old	New	Old	New	Old
100	A+1	099	1	Classics 100	1
200	2	100	2	102	History 2
		200	4	103	
300	3+6	201	—	221	—
301	4	202	3	222	22
302	5	300	5	223	23
		301	7	235	Philos. 24
				240	25
				251/551	—
				252/552	—
				253/553	—
				Classics 452/552	110
				461/561	

ECONOMICS

Professors J. F. Graham (Head of Dept.), N. H. Morse, A. M. Moore
Associate Professors.....A. M. Sinclair, C. Y. Chao
Assistant Professors.....R. L. Comeau, P. B. Huber, C. M. Ouellette
 Members of other departments offering courses in Economics:
Professors.....R. S. Cumming, R. E. George (Commerce),
 D. Braybrooke (Philosophy & Political Science)
Special Lecturer.....K. S. Wood (Institute of Public Affairs)

The Department offers undergraduate and graduate programmes in Economics.

Students should consult the timetable and the Department at the time of registration for changes in or additions to the courses listed here.

Recommended programme for students majoring in Economics for the General B.A. degree (New Programme)

- YEAR I Economics 100; Political Science 100 or Sociology 100; History 100 or Philosophy 100; Mathematics 100; Modern Language.
- YEAR II Economics 200; Economics 202; Economics 300; English 100; Sociology 100 or Political Science 100, whichever not taken in first year; or a higher level class in which ever subject was offered in the first year.

YEAR III

Two classes in Economics; History 100 or Philosophy 100, whichever one was not taken in first year; two classes in a minor field, ordinarily selected from fields related to Economics, such as Sociology, Social Anthropology, Political Science, History, Philosophy or Mathematics.

Notes on General Programme

1. Students considering majoring in Economics are encouraged to consult the Department about their programme.
2. Although students may offer fewer classes in Economics than the six suggested, this number is necessary to give them a basic knowledge of the discipline and should be regarded as the minimum for preparation for a graduate programme in Economics.
3. Economics 200 and 300 are basic classes. It is highly desirable that students take them in Year II, in preparation for taking higher level classes in Year III.

Major Programme for Honours in Economics and Combined Programme with Major Concentration in Economics

	YEAR ONE	YEAR TWO	YEARS THREE & FOUR
Classes common to, and required of, all honour students with major concentration in Economics	Econ. 100 Math. 100 Mod. Lang. at 100 level	Econ. 200 Econ. 202 English 100	
OPTIONS Major Programme in Economics	Hist. 100 or Phil. 100 Soc. Anth. 100 or Pol. Sc. 100	Econ. 302 (or other Ec. Hist.) Soc. Anth. 100 or Pol. Sc. 100 or higher level class in whichever of Soc. or Pol. Sc. was taken in year one	Hist. 100 or Phil. 100, whichever was not taken in year one 6 Econ. classes including 300, 303, either 301 or 307, and at least one of 304, 305, or 430 2 classes in minor field I elective
Combined Programme in Economics with Sociology	Hist. 100 or Phil. 100 Soc. Anth. 100	Soc. 202 Either Soc. 203, or Soc. 204 or Soc. 205	Hist. 100 or Phil. 100, whichever was not taken in year one 4 Econ. classes including 300 and 304 Soc. 305, Soc. 303 and Soc. 403, 2 electives
Combined Programme in Economics with Political Science	Hist. 100 or Phil. 100	2 Pol. Sc. courses including at least 1 of Pol. Sc. 205, 240, 242, or 244	Hist. 100 or Phil. 100, whichever was not taken in year one 4 Econ. classes including 300 2 Pol. Sc. classes including 300 1 additional class in Econ. or Pol. Sc., 2 electives
Combined Programme in Economics with Philosophy	Phil. 100 Pol. Sc. 100 or Soc. Anth. 100	Phil. 200 and 210	Hist. 100 4 Econ. classes including 300 2 Phil. classes including 1 of 205, 230, 320 1 additional class in Econ. or Phil., 2 electives

Combined Programme in Economics with History	Hist. 100 Pol. Sc. 100 or Soc. Anth. 100	2 Hist. courses including Hist. 220	Phil. 100 4 Econ. classes including 300 and 306, Econ. 302 = Hist. 322 2 Hist. classes, 2 electives
Combined Programme in Economics with Mathematics	Hist. 100 or Phil. 100 Pol. Sc. 100 or Soc. Anth. 100 or Psych. 100	2 Math. courses including Math. 200	Hist. 100 or Phil. 100 whichever was not taken in year one 4 Econ. classes including 300 and 501 2 Math. classes 1 additional Math. or Econ. class, 2 electives
Combined Programme in Economics with Psychology	Hist. 100 or Phil. 100 Psych. 100	Psych. 200 and 201	Hist. 100 or Phil. 100 whichever was not taken in year one 4 Econ. classes including 300 2 Psych. classes 1 additional Econ. or Psych. class, 2 electives

NOTES ON HONOUR PROGRAMME

- The student's programme will be chosen in consultation with the Department and must have the approval of the Department.
- Honour students must pass a comprehensive examination at the end of their fourth year.
- Students in the Major Programme will normally be required to take at least three classes in a minor field related to Economics (Sociology, Social Anthropology, Political Science, History, Philosophy, or Mathematics). In any case, of the classes selected outside of Economics in the third and fourth year, students must include at least two classes above the elementary level.
- Departures may be made from the order of classes with departmental approval.
- In some instances, the Department may permit students to take classes in other subjects in lieu of classes in Economics and may permit minor variations in the required classes.
- The Department may require the student to prepare an Honours essay under its supervision.
- Students may be required to attend Honour seminars in their third and fourth years.
- Combined programmes with other departments may be arranged with a pattern similar to the ones above.
- For combined programmes with Economics where the major concentration is in the other discipline, consult the other departments concerned.

Classes Offered

100. Principles of Economics. Members of the Department

Lect.: 2 hrs.; Discussion in small groups; 1 hr.

The aim of this class is to acquaint the student with the main elements of economic theory, which explains how the scarce resources of a society are utilized to satisfy the wants of its members. This class is intended either as an introduction to higher level classes in Economics or as a terminal class for students who can take only one class in Economics. It is hoped that it will give students a better understanding of some of the main economic issues in public policy. The subject is treated as one important aspect of the over-all problem of understanding society, i.e., is considered in relation to other social sciences and in a historical and contemporary social context. The major sections of the class are: an introduction to the nature of economics; basic concepts and definitions; the law of diminishing returns and its implications; theory of value (demand, supply, price, types of competition, theory of the firm, imperfections in the market system); distribution; national income and employment; money, banking and credit; international trade and finance; comparative economic systems; economic growth.

200. Money, Banking and International Finance.

A.M. Sinclair

Lect.: 3 hrs.

The content of this class has been revised to lay more emphasis on macro theory and in particular to include material on national income accounting. The class now covers those elements of macro theory that are required for higher level classes in Economics, as well as dealing with financial institutions and monetary policy.* The following topics are considered: national income accounting; the determination of income and the rate of interest, with emphasis on the significance of money; the role of commercial banks, financial intermediaries and central banks; international monetary institutions; the balance of payments; monetary policy and its implications for employment, prices, exchange rates and the balance of payments.

Prerequisite: Economics 100.

201. Intermediate Economic Analysis Not offered in 1967-68.**202. Economic Statistics (same as Commerce 304)**

R. E. George

Lect.: 3 hrs.; Lab.: 2 hrs.

Functions of statistical methods; collection, analysis, and presentation of statistical information; measures of central tendency, dispersion, skewness, and kurtosis; analysis of time series; index numbers; two-variable correlation; curve-fitting and chi-square test; probability; sources of Canadian statistical information.

Prerequisite: Economics 100.

*See footnote page 87.

300. Economic Analysis I (Price Theory and Competitive Practices)

A. M. Moore

Lect.: 3 hrs.

This class has been revised so that it covers those elements of micro-theory required for higher level classes in Economics and, at the same time, shows how this theory provides an understanding of pricing behaviour in the market situations found in the real world.* The determinants of short-run costs; pure pricing theory of the firm; observed competitive practices; the many variants of oligopoly behaviour; economists' criteria of efficiency, income distribution, stability and growth; case studies in resource allocation; analysis of general equilibrium; derivation of aggregate supply curves and inter-relation of micro with macro theory are among the subjects discussed.

Prerequisite: Economics 100.

301. Economic Analysis II (macro-economic theory)

Lect.: 2 hrs.

N. H. Morse

A review of classical and Keynesian macro-economics; statistics and dynamics with some emphasis on money in a theory of finance.

Prerequisite: Economics 100.

302. Canadian Economic History

N. H. Morse

Lect.: 3 hrs.

A study of the economic development of Canada from the age of discovery to the present. Prerequisite: Economics 100.

303. History of Economic Thought

N. H. Morse

Lect.: 3 hrs.

A survey of certain main streams of doctrine and analysis since Mercantilist times including classical and neo-classical writers, Marx and other socialists, the Austrians and the German Historical School, Institutionalists, and reviews of the works of selected writers in this century such as Veblen, Schumpeter, Keynes, and Galbraith.

Prerequisite: Economics 100.

304. Comparative Economic Systems

P. B. Huber

Seminar: 2 hrs.

The characteristics of about ten actual economies, including the Soviet Union, China, France, India, Yugoslavia, and the United States, are

*Economics 200 and 300 are basic classes designed to cover the main elements of macro- and micro-theory and to contribute to an understanding of the real world and of economic policy. They or Economics 201 are recommended as preparation for higher level classes.

ascertained, compared and interpreted. Toward the end of the year theories of economic organization and control are examined. Emphasis is placed on the social, political, and economic processes through which the economic functions of society are institutionalized. A series of short papers are assigned. In the Autumn these will be based directly on the required readings, but in the second term, they will require independent research.

Preparatory summer reading should include R. L. Heilbroner, *The Making of Economic Society*; R. E. Campbell, *Soviet Economic Power* (2nd ed.); and C. B. Hoover, *The Economy, Liberty and the State*.

Prerequisite: Economics 100.

305. Labour Economics

R. L. Comeau

Lect.: 3 hrs.

The economics of the labour market with an examination of the theoretical basis of the demand and supply of labour, and particular application of the analysis for the Canadian market. The theory and practice of collective bargaining and an examination of the historical and legal foundations of labour relations in Canada.

Prerequisite: Economics 100.

306. Economic Development of Western Civilization (same as Commerce 303)

R. S. Cumming

Lect.: 3 hrs.

The historical growth of the economy of Western culture and the inter-relationship of European and North American Economic history. The development of economic institutions and ideas, including modern views on such movements as imperialism, mercantilism, the industrial revolution, and the great depression.

Prerequisite: Economics 100.

307. Theory of the Business Cycle (same as Commerce 453)

R. E. George

Lect.: 2 hrs.

National income and expenditure; description, history, and measurement of business cycles; theories of the business cycle; control, domestic and international, of business fluctuations.

Prerequisite: Economics 100 and 200.

308. Theory and Problems of Economic Development

C. M. Ouellette

Lect.: 3 hrs.

Nature of economic development and economic underdevelopment; standard analysis of the development process and of obstacles

to development; English classical economists, Marxian economists, Schumpeter, contemporary writers; lessons from the original Industrial Revolution and subsequent development revolutions; issues in developmental policy; planning and programming for development.

Prerequisite: Economics 100.

400. Public Finance

J. F. Graham

Lect.: 2 hrs.

This class is concerned with the allocation of resources between the public and private sectors of an economy and within the public sector, i.e., with the theory of the production of public as opposed to private goods. The main sections are fiscal policy (the influencing of the level of income and employment of a country by adjustments in taxation and public expenditure), the theory of public expenditure, the theory of public revenue (principally taxation), the theory of public borrowing, and inter-governmental fiscal relations.

Prerequisite: Economics 100.

401. International Trade: Theory and Policy

P. B. Huber

Lect.: 2 hrs.

This class considers the causes of international exchange of goods and services, and analyzes the effects of participation in the international economy on the income, growth, and monetary arrangements of countries. The theory and practice of commercial policy and other restrictions on trade are considered after the "pure" theory of international trade and its implications have been explored. In the second term international monetary analysis is taken up and causes and remedies of external imbalance of national economies are considered. Depending on class interest, some of the following topics may be treated in detail: issues of international development finance, theory and practice of customs unions, reorganizing the international monetary system, the Prebisch theory of trade and development. Two or more medium-length papers will be required in addition to the mid-year and year-end tests.

Prerequisite: Economics 200. Others may be admitted by permission of the instructor.

403. Regional Economic Development

K. S. Wood

Lect.: 2 hrs.

A class for advanced undergraduate students. Lectures during the fall and winter terms will include the following general topics: an introduction to the spatial problem in economics and to regional economics, spatial organization of the economy, location theory, regional economic development theory, techniques of regional analysis, and national policies for regional development. This class attempts to impart an understanding of the theoretical background for regional

economic development, to develop student ability to use techniques of economic analysis as applied to regional problems, and to provide a number of case studies from European, North American and Atlantic Province experience.

Prerequisite: Economics 200, or permission of instructor.

404. Production Economics

C. Y. Chao

Lect.: 2 hrs.

Production principles applied to use of land, labor, and capital; resource and product combinations under static and dynamic conditions; returns to scale; time, factor rewards, and resource valuations; risk and uncertainty in production; adjustment of production and resource use to uncertainty; efficient criteria; interindustry productivity comparisons; resource mobility; returns to firm and society; cases of and means of eliminating production inefficiency.

Prerequisite: Economics 100.

405. Economic History of Great Britain and the British Empire Overseas (same as Commerce 456)

R. S. Cumming

Tutorial class. Admission is by permission of the instructor and is restricted to advanced students.

406. The Regional Economy of North and South America (same as Commerce 455)

R. S. Cumming

Time to be arranged.

Tutorial class. Admission is by permission of the instructor and is restricted to advanced students.

407. Philosophy, Politics, and Economics (same as Philosophy 340 and Political Science 349)

D. Braybrooke

Lect.: 2 hrs.

Seminar. Various topics on which the subjects of philosophy, political science, and economics converge will be investigated, among them: standards for evaluating governments such as natural rights, welfare, majority rule, and efficiency; the concept of rational action; the relationship between action explanations and behaviour explanations in social science; and the uses of social science in making decisions and choosing policies. Reading in such authors as Aristotle, Butler; Hicks, Little, Boulding; Marx, Webber, Herring, Downs, Arrow, Schelling; Popper, Dahl and Lindblom; and Simon.

408/505. Industrial Organization.

A. M. Moore

Changed to a graduate class (Economics 505) but still available to undergraduates with permission of the instructor.

409. Applied Economics (same as Commerce 454)

R. E. George

Lect.: 3 hrs.

The application of economic principles to the problems of economic control; optimum pricing and distribution of factors of production under private and public enterprise; control of monopoly and restrictive practices; location of industry; economics of underdeveloped areas.

Prerequisite: Economics 100 and 200.

Graduate Studies

The Department offers a graduate programme leading to the M.A. degree and expects to initiate a Ph.D. programme in the near future. Details of the M.A. programme, including a list of graduate courses, are given under *Faculty of Graduate Studies*. Senior undergraduates may be admitted to graduate classes at the discretion of the instructor concerned.

Key to Class Numbers: Economics

New	Old	New	Old	New	Old
100	1	304	14	403	25
200	2	305	3	404	28
201	—	306	20	405	24
202	6	307	22	406	23
300	12	308	17	407	27
301	13	400	5	408/505	—
302	15	401	7	409	21
303	8	402	16		

ENGLISH LANGUAGE AND LITERATURE

- Professors*.....A. R. Bevan (Head of Dept.
C. L. Bennet, S. E. Sprott
- Visiting Professors*.....A. J. M. Smith (Canada Council Visiting
Professor and Poet-in-Residence (1966-67)
J. M. S. Tompkins, A. L. Wheeler
- Associate Professors*.....R. MacG. Dawson, J. Fraser
S. Mendel, M. G. Parks, D. P. Varma, H. S. Whittier
- Assistant Professors*.....A. G. Cannon,, S. A. Cowan, R. S. Hafter,
C. J. Myers, R. L. Raymond, D. H. Sproule, Phyllis Whittier
- Post-Doctoral Fellow*.....D. A. Cameron (1967-68)

Honour English: Major Programme

This programme is recommended especially for students looking forward to graduate study in English (at Dalhousie or at other graduate schools) and for prospective specialist High School Teachers. It provides the student with the full coverage of English Literature required in many universities for subsequently completing *in one year* the course work for the M.A. degree.

All students intending to enter Honours English in Year II must consult the Department of English before the end of their first year.

- YEAR I** English 100; one of French 100, German 100, Latin 100, Greek 100; one of History 100, Philosophy 100, Classics 100; one of Economics 100, Political Science 100, Sociology 100, Psychology 100; one of Chemistry 100, Physics 100, Biology 100, Geology 100, Mathematics 100¹.
- YEAR II** English 251; English 252; a second class from Economics 100, Political Science 100, Sociology 100, Psychology 100; a second class from History 100, Philosophy 100, Classics 100; a second class in the language chosen in Year 1².
- YEAR III** English 351; English 352; English 353³; one class above the 100 level, normally chosen from History, Philosophy, Classics, or a foreign language, a class in a second foreign language or a third class in the minor subject or a third class in the first foreign language.
- YEAR IV** English 451; English 452; two of English 453, English 206, English 207, English 454, English 208, English 201, Drama 350, Drama 450⁴; one class above the 100 level in History or Philosophy, or a class in Art History or Music.

The *standard* Honour course in English consists of the following 10 classes: English 253, 351, 251, 252, 352, 353, 451, 452, 453, and 454. Students may wish, however, to take advantage of the wide choice offered for the two electives (see Year IV) in order to satisfy special interests. They are allowed to do so with the understanding that only the *standard* course as outlined earlier in this paragraph prepares the student to undertake graduate work in English (at Dalhousie or elsewhere) without possibly having to make up deficiencies and therefore extending his M.A. course to two years instead of one.

1. This requirement applies only to students with no Senior Matriculation credit in Science or Mathematics. Students having such credit may choose a second subject from History, Philosophy, Classical Literature, or a class in a second foreign language.
2. Students intending to go on to graduate study in English should substitute here English 253 (Old English). Otherwise they may be obliged to make up the class in their M.A. programme, at Dalhousie, or elsewhere.
3. Students wishing to concentrate on the study of drama may, however, postpone English 353 until Year IV and substitute here Drama 350. Consequently, their course in Year IV will consist of English 451, 452, 353, 201, and the extra-departmental elective.
4. Students intending to enter graduate study are advised to choose English 454 as one of the two elective classes.

English and French: Combined Honour Programme

- YEAR I** English 100; French 100 or French 102; one of Economics 100, Political Science 100, Sociology 100, Psychology 100; one of Classics 100, History 100, Philosophy 100; Science or Mathematics or (if not required) a second class from Classical Literature 100, History 100, Philosophy 100.
- YEAR II** English 252; French 220; French (any other intermediate class); a second subject from Classics 100, History 100, Philosophy 100 (if not already taken in Year I), otherwise a class in European or French or British History; a second class from Economics 100, Political Science 100, Sociology 100, Psychology 100.
- YEAR III** English 251 or English 352; English 353; English 207 or French 321; French 322; a class from the Humanities beyond the 100 level.
- YEAR IV** English 451 or English 452; English 453 or English 209; French 320 or French 453; one of French 350, French 451, French 452; free elective.

English and History: Combined Honour Programme

- YEAR I** English 100; History 100; French 100 or German 100 or Latin 100; Economics 100 or Political Science 100 or Sociology 100; Chemistry 100 or Physics 100 or Biology 100 or Geology 100 or Mathematics 100¹. This requirement applies only to students with no Senior Matriculation credit in Science or Mathematics. Students having such credit *may* substitute Classics 100 or Philosophy 100.
- YEAR II** English 252; English 251 or English 352; History 314; a second subject from Economics 100, Political Science 100, Sociology 100; a second class in the language begun in Year I.
- YEAR III** English 353; English 451; History 211; History 200 or 201; Philosophy 100 or Classics 100.
- YEAR IV** English 453 or English 209 or Drama 450; English 351 or English 206 or Drama 350 or English 207 or English 454 or English 201; two of History 210, History 220, History 230, History 231, History 204, History 205²; a second class in Philosophy chosen from Philosophy 230, 300, 303, 310, 315.

1. See footnote on page 92.

2. Students in Year IV must consult the Department about correspondence of classes. As a general rule, classes in English and History in Year IV must be matched: e.g., if English 207 is chosen, History 220 must also be chosen.

English and Philosophy: Combined Honour Programme

- YEAR I English 100; Philosophy 100; French 100 or German 100 or Latin 100 or Greek 100; Economics 100 or Political Science 100 or Sociology 100 or Psychology 100; Biology 100 or Chemistry 100 or Geology 100 or Physics 100 or Mathematics 100¹.
- YEAR II English 252, English 251 or English 352; one of Philosophy 200, 205, 210; a second class from Economics 100, Political Science 100, Sociology 100, Psychology 100; a second class in the language chosen in Year I.
- YEAR III English 353; English 451 or 452; a second class from Philosophy 200, 205, 210; Philosophy 230; History 211 or History 204 if History 100 has already been taken in Year I; if not, substitute History 100 here.
- YEAR IV One of English 453, 209, 208; one of English 351, 206, 207, 454, 201, Drama 350; Philosophy 235 or 240; Philosophy 315 or 320 or 325 or 330; elective chosen from History, Classics, Modern Languages, Art History or Music.

English and German Combined Honour Programme

This course is arranged so that, by the choice of a seventh class in Year II, the emphasis is placed on either one of the Honour subjects.

English and Spanish Combined Honour Programme

This course is arranged so that, by the choice of a seventh class in Year II, the emphasis is placed on either one of the Honour subjects. (See Department of Spanish).

Classes Offered

1. Introduction to Poetry, Fiction, and Drama

Lect.: 3 hrs.

An introduction to the critical reading of literature, for students registered before 1966 who do not have the prerequisite for English 100. *Texts*: Laurence Perrine, *Sound and Sense, An Introduction to Poetry*; an anthology of short stories (to be announced); Bulfinch's *Mythology*; Shakespeare, *King Lear*; Synge, *The Playboy of the Western World*; Miller, *Death of a Salesman*; Dickens, *Great Expectations*;

1. Students with a Senior Matriculation pass in Science may substitute here History 100 or Classics 100.

Crane, *The Red Badge of Courage*; James, *The Turn of the Screw*; Fitzgerald, *The Great Gatsby*. Handbook for theme correction; Baker, *The Practical Stylist*.

100. Survey of Major British Writers

Lect.: 3 hrs.

Prerequisite: English 1 or an equivalent class, or Senior Matriculation. A study of English literature through the works of major writers. *Texts*: To be announced.

201. History of the English Language

Lect.: 3 hrs.

Prerequisite: English 100. An introductory class in language of particular interest to prospective teachers of English. A study of phonetics and of modern approaches to Grammar is included. *Texts*: John A. Sheard, *The Words We Use*.

203. Masterpieces of Western Literature

H. S. Whittier

Lect.: 3 hrs.

Prerequisite: English 100. A class of intensive reading in translations of selected major works from western literature designed to lead to an understanding of the continuity of that literature. *Basic Texts*: *Odyssey* (Penguin); *Metamorphoses*, Ovid (U. of Indiana Press); *Select Essays of Montaigne* (Penguin); *Don Quixote*, Cervantes (Viking Portable). Additional texts to be announced. Interested students should consult the instructor in the Spring or during registration.

204. The European Novel

S. Mendel

Lect.: 2 hrs.

Prerequisite: English 100. A study of representative novels of the last two hundred years in translation. *Texts*: Goethe, *The Sorrows of young Werther* (Signet); Constant, *Adolphe* (Signet); *Stendahl, Scarlet and Black* (Penguin); Turgenev, *Fathers and Sons* (Signet); Flaubert, *Madam Bovary* (Norton); Dostoyevsky, *Crime and Punishment* (Penguin); Tolstoy, *Anna Karenina* (Signet); Gide, *The Immoralist* (Vintage); Mann, *The Magic Mountain* (Penguin); Kafka, *The Trial* (Modern Library); Koestler, *Darkness at Noon* (Signet); Sartre, *Nausea* (New Directions).

205. Victorian Literature

C. L. Bennet

Lect.: 2 hrs.

Prerequisite: English 100. A study of prose and poetry of the period. Carlyle, Newman, Ruskin, Arnold, Dickens, Thackeray, Tennyson, Browning.

206. American Literature of the Nineteenth Century.

Lect.: 3 hrs.

H. S. Whittier

Prerequisite: English 100. This is a survey of American literature through selected major works by Poe, Hawthorne, Melville, Thoreau, Twain, James Whitman, Dickinson, Crane. Summer reading is advisable. Interested students should obtain reading lists from the instructor in the Spring. *Texts*: To be announced.

207. Canadian Literature

M. G. Parks

Lect.: 2 hrs.

Prerequisite: English 100. A survey of English-Canadian literature with emphasis on poetry and fiction from the 1920's to the present. Among the poets represented are Isabella Crawford, C. G. D. Roberts, Bliss Carman, Archibald Lampman, D. C. Scott, E. J. Pratt, F. R. Scott, A. J. M. Smith, Earle Birney, A. M. Klein, and P. K. Page. The following prose works are studied: T. C. Haliburton, *The Clock-maker* (1st series); Stephen Leacock, *Sunshine Sketches of a Little Town*, *Arcadian Adventures with the Idle Rich*; F. P. Grove, *Fruits of the Earth*; Hugh MacLellan, *Barometer Rising* and one other novel; Robertson Davies, *Leaven of Malice*; Morley Callaghan, *Such is My Beloved*; Ernest Buckler, *The Mountain and the Valley*. Some changes and additions may be made. Summer reading of the novels is advisable. *Texts*: Klinck and Watters, *Canadian Anthology*; novels in the New Canadian Library series.

208. The English Novel to 1900

D. P. Varma

Lect.: 2 hrs.

Prerequisite: English 100. A survey of the English novel, primarily to study the evolution of fiction and its chief landmarks during the eighteenth and nineteenth centuries: Antecedents and formative influences of fiction; chief works of eighteenth century novelists; efflorescence and disintegration of Gothic Romance; making of the Historical Novel; representative works of Victorian fiction.

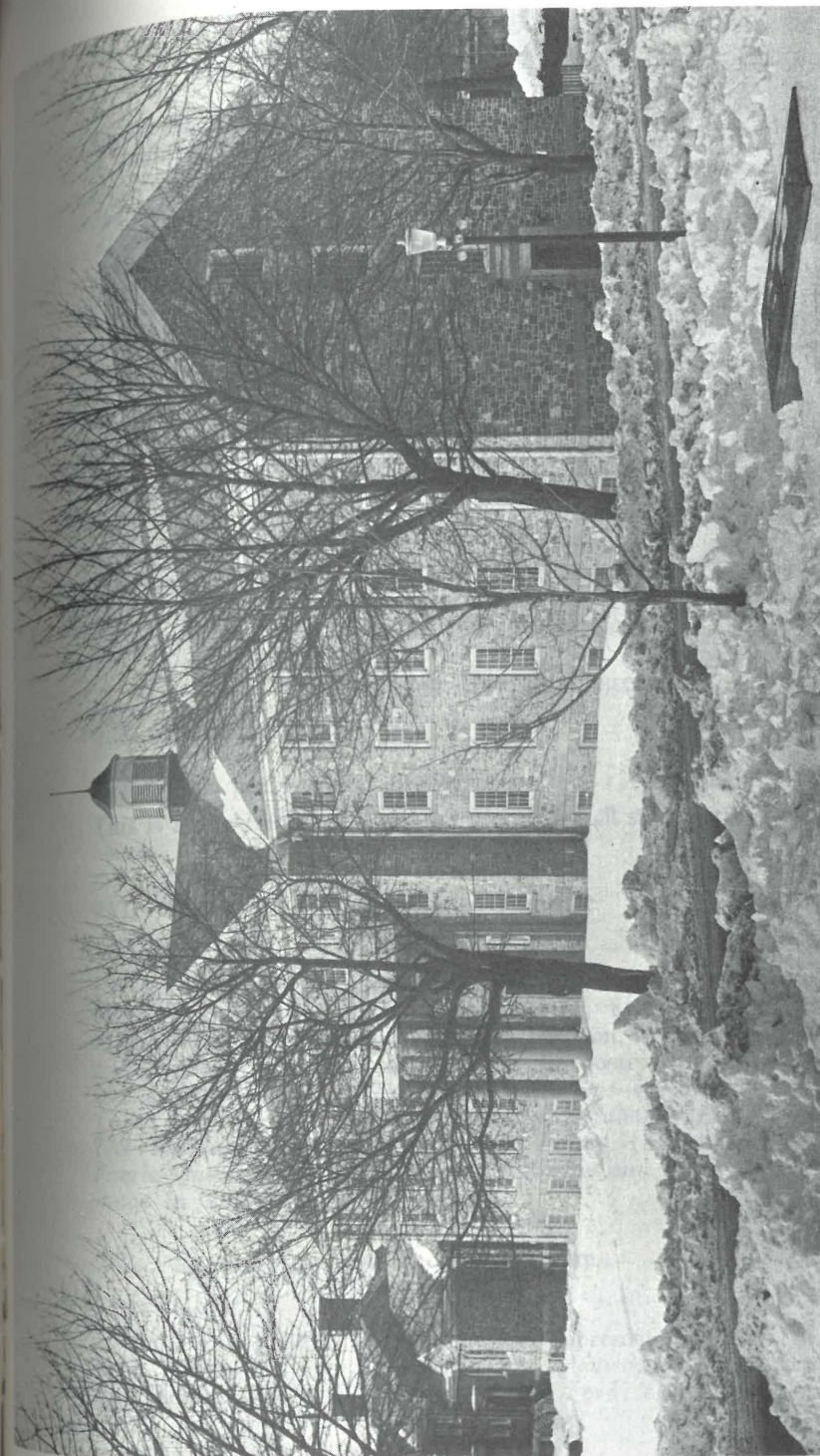
Texts: Defoe, *Moll Flanders*; Richardson, *Clarissa*; Fielding, *Tom Jones*; Goldsmith, *Vicar of Wakefield*; Radcliffe, *Mysteries of Udolpho*; M. G. Lewis, *The Monk*; Mary Shelley, *Frankenstein*; Scott, *Kenilworth*; Jane Austen, *Emma*; George Eliot, *Silas Marner*; E. Bronte, *Wuthering Heights*; Dickens, *David Copperfield*; Thackeray, *Vanity Fair*; Hardy, *Tess of the D'Urbervilles*.

209. Twentieth-Century Fiction

A. R. Bevan

Lect.: 2 hrs.

Prerequisite: English 100. A study of selected novels, novelettes and short stories of the twentieth century: Conrad, *Lord Jim*; James, *Daisy Miller* and *Turn of the Screw*; Lawrence, *Sons and Lovers*;



Alexandra Hall in a Winter Setting

Joyce, *Portrait of the Artist*; Woolf, *Mrs. Dalloway*; Forster, *Passage to India*; Huxley, *Antic Hay*; Cary, *Horse's Mouth*, *Herself Surprised* and *To be a Pilgrim*; Golding, *Lord of the Flies*; Faulkner, *The Sound and the Fury*; Steinbeck, *The Grapes of Wrath*; Hemingway, *The Sun Also Rises*, and *The Old Man and the Sea*.

210. Modern Poetry

S. E. Sprott

Lect.: 2 hrs.

Prerequisite: English 100. A study of poetry by representative authors, especially Hopkins, Yeats, Pound, Eliot, Auden and Thomas.

213. American Literature of the Twentieth Century.

R. S. Hafter

Lect.: 2 hrs.

Prerequisite: English 100. A study of representative poetry, drama, and prose. Some of the authors represented will be Hemingway, Faulkner, Frost, Anderson, Fitzgerald, Salinger, W. C. Williams, Eliot, O'Neill, Tennessee Williams, Arthur Miller. *Texts*: To be announced.

Classes for Honour Degrees

250. Bibliography.

R. L. Raymond

Lect.: 1 hr. per week for first term.

This is a non-credit but compulsory class for all students in the Honour course.

251. Sixteenth-Century Non-Dramatic

M. G. Parks

Lect.: 2 hrs.

Prerequisite: English 100. A study of representative works of More, Erasmus, Cavendish, Wyatt, Surrey, Elyot, Ascham, Hooker, Sidney, Marlowe, Shakespeare, Daniel, Drayton, Lyly, Deloney, Greene, and Nashe, with special emphasis on the poetry of Spenser. *Texts*: More, *Utopia* (Yale); *The Essential Erasmus* (Mentor); *Two Early Tudor Lives* (Yale); Ashley and Moseley, *Elizabethan Fiction*; Spenser, *The Shepherd's Calendar and other Poems* (Everyman) and *The Faerie Queene*, Vol. I (Everyman); Rollins and Baker, *The Renaissance in England*.

252. Elizabethan and Jacobean Drama

A. L. Wheeler

Lect.: 2 hrs.

Prerequisite: English 100. A study of representative plays of Lyly, Kyd, Marlowe, Peele, Greene, Dekker, Heywood, Jonson, Beaumont and Fletcher, Middleton, Massinger, and Ford; also a study of about

a dozen of Shakespeare's plays. *Texts: Elizabethan and Stuart Plays*, ed. Baskervill, Heltzel, Nethercot; T. M. Parrott and R. H. Ball, *A Short View of Elizabethan Drama*; Shakespeare's *Complete Works*, ed. G. L. Kittredge, or Hardin Craig. Summer reading is advisable, for which direction should be obtained from the Department.

253. Old English

R. M. Dawson

Lect.: 3 hrs.

Prerequisite: English 100. For honour and graduate students, and others by special permission. Students intending to take this class should arrange for preparatory reading during the summer.

351. Middle English

Phyllis Whittier

Lect.: 3 hrs.

Prerequisite: English 100. An introduction to literary traditions, 1100-1500, with close textual study of selected works. *Texts: Chaucer*, ed. Robinson; *Mediaeval English*, ed. Kaiser.

352. Seventeenth-Century Non-Dramatic

S. A. Cowan

Lect.: 2 hrs.

Prerequisite: English 100. A study of representative works of Bacon, Donne, Jonson, Herbert, Crashaw, Vaughan, Marvell, Cowley, Burton, Browne, and Taylor, with special emphasis on the poetry of Milton. *Texts: Hughes (ed), John Milton: Complete Poems and Prose*; Witherspoon and Warnke (eds.), *Seventeenth-Century Prose and Poetry*.

353. Restoration and Eighteenth-Century Literature

H. D. Sproule

Lect.: 2 hrs.

Prerequisite: English 100. A broad survey of English literature and letters from 1660 to 1780, including selections from Dryden, Wycherley, Congreve, Pope, Swift, Gray, Hume, Young, Sheridan, Sterne, Johnson, Boswell, Defoe, and Fielding. *Texts: Shepard and Wood, English Prose and Poetry 1660-1800*; Wilson, *Six Restoration Plays*, *Six Eighteenth Century Plays*; Defoe, *Moll Flanders*; Fielding, *Tom Jones*; Sterne, *Tristram Shandy*.

451. Nineteenth-Century Poetry

C. J. Myers

Lect.: 3 hrs.

Prerequisite: English 100. The purpose of this class is to study selected poems by the major nineteenth-century English poets. Slightly

more than half the year will be devoted to works by the following poets of the Romantic Movement; Blake, Wordsworth, Coleridge, Keats, Shelley, and Byron. The remaining part of the second term will be devoted to selections from the works of Arnold, Tennyson, and Browning.

452. Nineteenth-Century Thought

S. Mendel

Lect.: 2 hrs.

Prerequisite: English 100. For honour students and others by special permission of the instructor. A study of representative writers of the period, with emphasis on the history of ideas. *Texts: Bentham and Mill, The Utilitarians (Dolphin)*; Mill, *On Bentham and Coleridge (Harper)*; Dickens, *Hard Times (Rinehart)*; Burke, *Reflections on the Revolution in France (Dolphin)*; Coleridge, *Biographia Literaria (Everyman)*; Carlyle, *Sartor Resartus (Everyman)*, *Past and Present (Everyman)*; Newman, *Apologia pro vita sua (Houghton Mifflin)*; Eliot, *Middlemarch (Houghton Mifflin)*; Ruskin, *Selections and Essays (Scribner)*.

453. Twentieth-Century Literature

J. Fraser

Lect.: 3 hrs.

Prerequisite: English 100. A seminar for senior students. A study of representative works of Hopkins, Conrad, Yeats, Forster, Joyce, Pound, Lawrence, Eliot, and Woolf. Summer reading is advisable.

454/513. Literary Criticism

R. S. Hafter

Lect.: Hours to be arranged.

For senior honour and graduate students. A study of the history, theory, and practice of literary criticism from Aristotle to the present. *Texts: Schorer et al., Criticism*; Enright and De Chickera, *Major Critical Texts*; Melville, *Billy Budd*; Hardison, Jr., *Modern Continental Literary Criticism*.

Graduate Studies

The Department offers graduate classes leading to the degrees of M.A. and Ph.D. Details relating to admission, scholarships and fellowships, requirements for the degree, classes of instruction, etc., can be found under Faculty of Graduate Studies.

Key to Class Numbers: English

New	Old	New	Old	New	Old
1	1	206	8	351	3
100	2	207	10	352	23
201	13	208	16	353	15
202	—	209	21	451	4
203	30	210	11	452	22
204	33	211	9	453	32
205	5	212	18	454/513	12
		213	—		
		250	—		
		251	14		
		252	7		
		253	6		

ENGLISH: DRAMA DIVISION

Assistant Professors - - - - A. R. Andrews, L. H. Lawrence,
J. D. Ripley

The Bachelor of Arts Degree with Honours in Drama and Theatre

All students intending to enter this programme must consult the Drama and Theatre Division of the *Department of English*.

- YEAR I
1. English 100.
 2. Foreign language class (Group A); one of French, German, Greek, Latin, Russian, or Spanish 100.
 3. Social Science class (Group C); one of Economics, Political Science, Psychology, or Sociology 100.
 4. Drama 100.
 5. (a) Students with science matriculation: a class in Classics, History or Philosophy;
(b) Students without science Matriculation: a science class from group D.
- YEAR II
6. Drama 250: The History of the Theatre from its Origins to the Renaissance.
 7. Drama 270: Design in the Theatre.
 8. A second class from Group B.
 9. A second class from Group C.
 10. A class in the Minor.
- YEAR III
11. Drama 350: The History of the Western Theatre from the Renaissance to the Rise of Realism.
 12. Drama 370: Theories of Play Production.
 13. Drama 380: The Art and Craft of Acting.
 14. A class in the Minor.
 15. A class in Art History.

- YEAR IV
16. Drama 450: The Modern Theatre.
 17. Drama 470: Special Topics.
 18. Drama 480: Theories and Techniques of Playwriting.
 19. Drama 490: Dramatic Criticism and the Aesthetics of the Theatre.
 20. Elective.

100. Theory and Practice of the Theatre.

Lect.: 3 hrs. Lab.: 3 hrs.

A study of theatre as distinct from other forms of art. Exploration of theatrical relationships. The actor and the audience; the actor and the playwright; the actor and the director: the role of the playwright and the structure of the play; the designer; the director. *Texts*: Brockett, O. G., *The Theatre: An Introduction*; Reinert, Otto, *Drama: An Introductory Anthology*.

250. The History of the Theatre from its Origins to the Renaissance.

Lect.: 3 hrs.; Lab.: 1 hr.

Prerequisite: Drama 100 (formerly English 110) or consent of the instructor. The history of the primitive and ritual theatre. The rise of the theatre in the Far East. The theatre of Greece and Rome. The theatre in Europe to 1500. Practical work on texts from each period. An examination of the nature of original conditions of performance. Discussions of contemporary significance of plays studied. *Texts*: Nagler, A. M. (ed.), *A Source Book in Theatrical History*; Gassner, J. and Allen, R. G. (eds.), *Theatre and Drama in the Making*, Vol. 1; Corrigan, R. (ed.) *The Laurel Classical Drama* (4 vols.); Gassner J. (ed.), *Medieval and Tudor Drama*.

350. The History of the Western Theatre from the Renaissance to the Rise of Realism. L. H. Lawrence

Lect.: 3 hrs.; Lab.: 1 hr.

Prerequisite: Drama 100 (formerly English 110). A study of the theatre in the west from the Renaissance to the rise of realism. Particular attention will be paid to the theatre in Italy, France, Spain, England, Germany and North America. Practical work on texts selected from dramatic literature of each country with a reference to the original conditions of performance. *Texts: to be announced*.

450. The Modern Theatre.

A. R. Andrews

Lect.: 3 hrs.; Lab.: 1 hr.

Prerequisite: Drama 100 (formerly English 110) or consent of instructor. The development of the Theatre in Europe and North America since 1850. An examination of conditions of performance. *Texts*: J. Gassner and R. G. Allen, *Theatre and Drama in the Making*, Vol. 11; R. Carrigan (ed.) *The Modern Theatre*; A. M. Nagler (ed.) *A Source Book in Theatrical History*.

270. Design in the Theatre.

(Offered first time in 1968-69)

Lect.: 3 hrs.; Lab. 3 hrs.

Prerequisite: Drama 100 or the consent of instructor. The basic elements of design and their application to the theatre. The history of stage design; stage mechanics; lighting; costume; materials; properties, and furniture. *Texts*: to be announced.

370. Theories of Play Production.

L. H. Lawrence

Lect.: 3 hrs. Lab. 3 hrs.

Prerequisite: Drama 100 (formerly English 110) or the consent of instructor. The evolution of the director as a creative artist. A consideration of different directorial principles. A study of theories of production. *Texts*: A. Dean, *Fundamentals of Play Directing*; T. Cole and H. Chinoy, *Directors on Directing*.

380. The Art and Craft of Acting.

(Offered for first time in 1968-69)

Lect.: 3 hrs.; Lab.: 3 hrs.

Prerequisite: Drama 100 or consent of instructor. A study of styles of acting for different forms: comic and tragic, from the Greek era to the present. Styles of acting for contemporary forms.

Texts: To be announced.**470. Special Topics.**

Drama Staff

Lect.: 3 hrs.

Prerequisite: Drama 100 (formerly English 110) or consent of instructor. Individual study and research under the advice of the department.

480. Theories and Techniques of Playwriting.

Lect.: 3 hrs.; Lab.: 1 Hr. (Offered for first time in 1969-70)

The playwright's use of his sources and resources. His motives for writing. Examination of the structure of a play. Analysis of the elements of a play.

Texts: To be announced.**490. Dramatic Criticism and the Aesthetics of the Theatre.**

Lect.: 3 hrs.

A. R. Andrews

Prerequisite: Drama 100 (formerly English 110) and the consent of the instructor. A study of standard works of dramatic criticism from Aristotle to Artaud. Attempts to define theatrical forms. *Texts*: M. Gorelik, *New Theatres For Old*; Barrett H. Clark, *European Theories of the Drama*.

Key to Class Numbers: Drama

Drama	English
100	110
250	202
270	—
350	211
370	—
380	—
450	212
470	—
480	—
490	—

GEOLOGY

Professors.....C. G. I. Friedlaender (Head of Dept.),
H. B. S. Cooke, G. C. Milligan
Associate Professors.....R. A. Gees, M. J. Keen (Geophysics)
Assistant Professors.....F. Medioli, P. E. Schenk
Special Lecturers.....A. E. Cameron, J. F. Jones, B. D. Loncarevic,
D. H. Loring, J. I. Marlowe

Students who intend to study for a degree in Geology should consult with the Head of the Department and other staff members before registration.

Those who intend to make their career in Geology, or, who intend to undertake graduate studies in Geology, should consider taking an Honour course.

The tables show programmes suggested:

1. For a General degree (Table 1)
2. For an Honour degree
 - (a) Major programmes (Table 2)
 - (b) Combined programmes (Table 3)

Honour students may be required to submit a short thesis by the end of their last year. They will also be required to obtain field experience satisfactory to the Department.

TABLE 1
General Degree

	1	2
FIRST YEAR	Geology 100 Language 100 English 100 (or elective) Mathematics 100 Physics 110 or Biology 100 or Chemistry 101	
SECOND YEAR	Geology 201 Geology 202 Elective (or English 100 if not already taken) Physics 110 or Biology 100 or Chemistry 101 or Mathematics 200 Physics 200 or Biology 201 or Chemistry 210	Geology 301 Geology 302 Geology 303 Physics 220 or Biology 201 or Chemistry 210 Elective
THIRD YEAR	Geology 301 Geology 302 Geology 303 Physics 220 or Biology 201 or Chemistry 210 Elective	Geology 301 Geology 302 Geology 304 Engineering 200 Elective

TABLE 2

Honours (Major)

	I Economic Geology	II Geophysics	III Geochemistry	IV Biological & Stratigraphic
FIRST YEAR	Geology 100 Language 100 English 100 (or elective) Mathematics 100			
	Physics 110	Physics 110	Chemistry 101	Biology 100
SECOND YEAR	Geology 201 Geology 202 Elective (or English 100 if not already taken)			
	Chemistry 101 Mathematics 200	Physics 220 Mathematics 200	Chemistry 210 Physics 110 or Biology 100	Biology 201 Chemistry 101 or Physics 110 or Mathematics 200
THIRD YEAR	Geology 301 Geology 302 Elective			
	Geology 304 Engineering 200	Geology 405 Physics 230 or Mathematics 300 or 227 or 206	Geology 305 Chemistry 230	Geology 303 Biology 321
FOURTH YEAR	Geology 401 or 406 Geology 403 Geology 404 Engineering 210, 211 Chemistry 210	Geology 303 Geology 304 Geology 451 or 401 Geology 452 Mathematics 200 or 227 or 206, or Physics 230	Geology 303 Geology 304 Geology 401 Geology 454 Physics 220 or Biology 201	Geology 304 Geology 401 Geology 455 Geology 457 or 506 Chem. 210 or Phys. 220 or Math. 200, 227 or 206

Honours (Combined)

TABLE 3

	I with Physics	II with Chemistry	III with Biology
FIRST YEAR	Physics 110	Chemistry 101	Biology 100
SECOND YEAR	Physics 220 Mathematics 200	Mathematics 100 Language 100 English 100 or Elective Geology 100	
THIRD YEAR	Physics 230 Physics 330 or 335 Geology 303	Chemistry 210 Mathematics 200, 220 or 228	Biology 201 Chemistry 101 or Physics 110 or Mathematics 200
FOURTH YEAR	Physics 310 Mathematics 200 or 227 or 206 Geology 305 Geology 401 or Geology 405 Geology elective	Chemistry 230 Chemistry 320 Geology 304	Biology 321 Biology 323 Geology 302
		Chemistry 410 Physics 110 or Biology 100 Geology 454 Geology 305 Geology elective	Biology Elective Chemistry or Physics 220 or Mathematics 200 or 227 or 206 Geology 401 Geology 455 Geology elective

Classes Offered

100. Introduction to Geology G. C. Milligan, P. E. Schenk
Lect.: 3 hrs.; Lab.: 3 hrs.

Introductory survey of main fields of geology and their relation to one another. Intended for those who are not pursuing geology as a career, as well as those who are preparing for specialized classes. Emphasizes the geological events and processes evident in the world about us. There is no prescribed text. Readings are assigned from suitable references in the departmental library.

201. Elements of Optical Mineralogy and Petrography
C. G. I. Friedlaender

Lect.: 2 hrs.; lab.: 3 hrs.

Aspects of determination with the mineralogical microscope.

202. Introduction to Palaeontology

Lect.: 2 hrs.; lab.: 3 hrs.

A study of the biologic and stratigraphic relationship of fossil forms with emphasis on morphologic structure, on paleoecology, and on evolutionary trends. *Texts*: Moore, Lalicker and Fisher, *Invertebrate Fossils*.

203. Concepts of Geology

Staff

Lect.: 2 hrs.

An outline of the concepts basic to current geological ideas and the inter-relationships between them.

301. Petrology of Igneous, Sedimentary and Metamorphic Rocks
C. G. I. Friedlaender, P. E. Schenk

Lect.: 2 hrs.; lab.: 3 hrs.

Descriptive petrography and elements of interpretative petrology.

302. Stratigraphy and Historical Geology P. E. Schenk

Lect.: 2 hrs.; lab.: 3 hrs.

Interpretation of depositional environment through geologic time from the study of the lithology, distribution, correlation, paleoecology, and lateral and vertical relationships of stratified rock.

303. Structural Geology

G. C. Milligan

Lect.: 3 hrs.; lab.: 3 hrs.

Study of the geometrical aspects of geological structures, including the elements of descriptive geometry. Primary and secondary structures in igneous and sedimentary rocks.

304. Introduction to Ore Deposits (1967-68) G. C. Milligan

Lect.: 3 hrs.

Case histories of selected mines and districts illustrating the types in a classification of ore-deposits and the factors controlling ore deposition.

305. Crystallography C. G. I. Friedlaender

Lect.: 2 hrs.; lab.: 3 hrs.

Introduction to geometrical and physical crystallography.

401. Sedimentation and Sedimentary Petrology R. A. Gees

Lect.: 2 hrs.; lab.: 3 hrs.

Sedimentary processes and sedimentary rocks, with special reference to marine conditions and the ocean floor.

403. Advanced Structural Geology (1967-68) G. C. Milligan

Lect.: 3 hrs.

Prerequisite: Geology 100, 201, 303. A seminar which includes discussion of major structural problems such as orogeny, isostasy, geotectonic development, granitization, etc. Exercises in interpretation of geological maps are also assigned.

404. Ore Deposits, Advanced Class (1968-69) G. C. Milligan

Hours to be arranged.

Prerequisites: Geology 100, 201, 303, 304 (Chemistry 330 is not a prerequisite but it is strongly recommended as preparation.) Controlling factors in deposition of 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.

405. Introduction to Earth Physics M. J. Keen, B. D. Loncarevic

Lect.: 3 hrs.; lab.: 3 hrs.

Prerequisites: Permission of the instructor. Practical exercises may be assigned. The origin, age and constitution of the Earth; the physical properties of rocks and minerals, and the application of geophysics to geological problems.

406. Examination of Mineral Properties A. E. Cameron

Lect.: 2 hrs.; lab.: to be arranged.

Lecture and laboratory class 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.

451 - 501. Advanced Petrology (1967-68) C. G. I. Friedlaender

Hours to be arranged.

Universal Stage Methods; Study of Petrofabrics; Modal Analysis.

452 - 502. Advanced Earth Physics M. J. Keen

Hours to be arranged.

Consideration of some of the applications of physics to the study of the earth.

453 - 503. Groundwater Geology J. F. Jones

Hours to be arranged.

Concepts on the occurrence, movement and distribution of groundwater in earth materials.

454/504. Geochemistry (1968-69) C. G. I. Friedlaender, D. H. Loring

Hours to be arranged.

Abundance and distribution of elements in the lithosphere, and special discussion of the preponderant elements and their nuclides.

455 - 505. Advanced Historical Geology (1967-68) P. E. Schenk

Lectures and seminars. Hours to be arranged.

Prerequisite: Geology 302. The sedimentary record of the North American continent.

456 - 506. Micropalaeontology F. Medioli

Hours to be arranged.

Marine microorganisms of particular geological interest (Foraminifera, Ostracoda, Radiolaria).

457/507. Pleistocene Geology (1968-69) H. B. S. Cooke

Seminars: 2-3 hours weekly.

Consideration is given to the nature of snow and ice; movement in glaciers and ice caps; glacial erosion and deposition; glacial stratigraphy, correlation and dating methods; sea-level fluctuations; climate changes evidenced in non-glaciated regions; theories of ice ages.

458 - 508. Advanced Marine Geology R. A. Gees

Hours to be arranged.

Review of recent developments in marine geology.

520. Volcanology (1966-67) C. G. I. Friedlaender

Hours to be arranged.

Volcanoes and volcanic products.

521. Statistical Techniques in Geology R. A. Gees

Hours to be arranged.

This class is offered in the first term in the Department of Mathematics as class 106: Elementary Statistics, and Probability Theory with Applications; A. J. Tingley.

522. Introduction to Vertebrate Palaeontology (1967-68) H. B. S. Cooke

Hours to be arranged.

Discussion of the major features of vertebrate evolution and the geologic history of vertebrate groups, particularly the mammals.

523. Selected Topics in Canadian Geology G. C. Milligan

Lect.: 3 hrs.

Regional geology of selected Canadian areas is used to illustrate certain geological ideas, mainly structural.

Geology Seminar. Presentation of papers by guest speakers, members of the staff, and senior students.

Spring Course in Field Geology. In co-operation with Mount Allison, St. Francis Xavier, St. Mary's, and Acadia Universities, a field course of approximately two weeks' duration is conducted at Crystal Cliffs, N. S. This course is held immediately following the conclusion of Spring examinations. It is compulsory for students specializing in Geology, after their third year. A fee of \$50 for full board is payable with the second instalment of University fees.

Graduate Studies

Graduate studies leading to the degrees of M.Sc. and Ph.D. can be taken in different fields of Geology, including Mineralogy. See Dalhousie Calendar under Faculty of Graduate Studies.

Key to Class Numbers: Geology

New	Old	New	Old	New	Old
100	1	401	13	455/505	23
201	—	403	7	456/506	—
202	16	404	6	457/507	19
203	—	405	12	458/508	—
301	3	406	11	520	10
302	17	451/501	15	521	22
303	—	452/502	—	522	20
304	4	453/503	21	523	8
305	2	454/504	9		

GERMAN

Assistant Professors.....Detlev Steffen (Acting Head of Dept)
Friedrich Gaede, Auguste Roulston

Lecturers.....Klaus Fricke, Gerta Josenhans

The Department of German studies the history of German literature and thought within the context of the European tradition. A sound acquaintance with the language will enable the student to do advanced studies in a field of his interest. A Language Laboratory is at the disposal of the students. In elementary classes laboratory work is compulsory. In advanced classes the attendance of special oral classes may replace laboratory work. Students who have completed junior or senior matriculation in German are advised to consult the department before registration.

**Requirements for Honour Degree
Major Programme**

YEAR I	German 100; two classes from Classics 100, History 100, Philosophy 100; a social science; a natural science (if not passed in Senior Matriculation; otherwise English 100).
YEAR II	German 200, 202, 251; one class from Classics 100, History 100, Philosophy 100; English 100 (if not taken in the first year; otherwise an elective).
YEAR III	German 301, 303; one class from German 302, 351, 352, 353; a class in the minor subject; second Social Science.
YEAR IV	German 400; German 401 or 402; one class from German 401, 402, 451, 452; one class in the minor subject; an elective.

**Romance Languages
Combined Honour Programme**

(The second language (RL 2) may be French or Spanish)

YEAR I	German 100; a class in RL2; one class from Classics 100, History 100, Philosophy 100; a social science; a natural science (if not passed in Senior Matriculation; otherwise a second class from Classics 100, History 100, Philosophy 100).
YEAR II	German 200; German 202 or 251; one class in RL2, English 100; one class from Classics 100, History 100, Philosophy 100.
YEAR III	German 303; one class from German 301, 302, 352, 353; two classes in RL2; a second Social Science.
YEAR IV	German 400; German 401 or 402; one class from German 401, 402, 451, 353; one class in RL 2, an elective.

German and English**Combined Honour Programme**

This course is arranged so that, by the choice of a seventh class in Year II, the emphasis is placed on either one of the Honour subjects.

- YEAR I German 100; English 100; a class from Classics 100, History 100, Philosophy 100; a Social Science; a Natural Science (if not passed in Senior Matriculation; otherwise a second class from Classics 100, History 100, Philosophy 100).
- YEAR II German 200; German 202 or 251 or English 251 or 253; English 252; a second class from Classics 100, History 100, Philosophy 100 (if not already taken); otherwise History 203 or 204 or Philosophy 230 or 235; a second Social Science.
- YEAR III German 301, 303; English 353, 451; an elective.
- YEAR IV German 400; one class from German 353, 401, 402, 451; English 453 or 209 or 210 or 212; English 454 or 351 or 201; an elective.

German and Greek**Combined Honour Programme**

- YEAR I German 100; Greek 100; Classics 100; a Social Science 100, a Natural Science (if not passed in Senior Matriculation; otherwise Philosophy 100).
- YEAR II German 200; German 202 or 251; Greek 200; Philosophy 100 or 235; English 100.
- YEAR III German 303; German 352 or 353; Greek 300; Philosophy 235 or 240; an elective (History 100 if possible).
- YEAR IV German 400; German 402 or 451 or 452; Greek 302; Classics 450 or a further class in Greek poetry; a second social science.

Classes Offered**100. Complete First Class in German.**

Lect.: 3 hrs. (5-6 sections).

Text: *German For Beginners* (Cunz, Groenke, Vail; 2nd ed.)

200. Advanced Language Class

Lect.: 3 hrs. (3 sections).

Prerequisite: German 100 or equivalent. The objectives of this class are a thorough review of grammar and to develop facility in reading, writing and speaking the language. Attention is placed on the literary qualities of the reading selections studied.

201. Scientific German

A. Roulston

Lect. 3 hrs. (1-2 sections).

Prerequisite: German 100 or equivalent reading knowledge. Study of grammar and reading of scientific texts. The class will enable Science, Pre-medical, Pre-dentistry, and Engineering students to use German scientific publications. The class will not be counted as a credit towards an Arts degree.

202. Exercises in Translation and Composition (1967-68)

D. Steffen

Lect.: 2 hrs.

English texts from various periods and of different nature will be translated into German. These translations will lead to the discussion of specific difficulties of grammar and composition.

221/251. German Civilization (1967-68)

K. Fricke, F. Gaede

D. Steffen

Lect.: 2 hrs.

In these lectures the course of Germany will be examined; literary, artistic, and philosophical aspects will be represented in the context of their concrete historical and social appearance. Texts will be prepared by the department.

300. Introduction to the Study of German Literature (1967-68)

D. Steffen

Lect.: 2 hrs.

A study of Poetry, Drama, and Fiction of the various periods of German Literature since the sixteenth century. Special emphasis will be laid on basic questions of literary criticism.

301. The Baroque Age (1967-68)

F. Gaede

Lect.: 2 hrs.

A study of the representative writers of the seventeenth century, the era of the Reformation and Counter-Reformation, the Thirty Years' War, and the destruction of Germany. The class will concentrate on the poetry of Gryphius and the mystics, the martyr drama of Gryphius and Lohenstein, and the tradition of the picaresque story.

302. The Age of Enlightenment

Lect.: 2 hrs.

A study of the revival of German culture in the Age of Enlightenment (Leibniz, Baumgarten, Klopstock, Lessing, Wieland).

303. The Period of Transition: Goethe and His Time. Part I

Lect.: 2 hrs.

From Herder to the death of Schiller, 1760-1805. A study of the writings of Hamann, Herder, Goethe, Schiller and others.

351. Composition in German (1967-68) G. Fricke

Seminar: 2 hrs.

Exercises in free composition paying attention to various literary forms, styles and idiomatic expressions.

352. German Philosophy: Aesthetic Theories

Seminar: 2 hrs.

A study of Winckelmann, Herder, Kant, Schiller, Holderlin, Schelling and Hegel. Special emphasis will be laid on the understanding and interpretation of the Greek culture.

353. Kleist and Holderlin

Seminar: 2 hrs.

A study of their writings.

400. The Period of Transition: Goethe and His Time. Part II (1967-68) D. Steffen

Seminar: 2 hrs.

A study of the works of the later Goethe, of Holderlin, Kleist, and of German romanticism.

401. Literature and Society in the Nineteenth Century (1967-68) G. Fricke

Seminar: 2 hrs.

A study of German literature in the "Age of Realism". A play by G. Buchner (*Woyzeck*), the poetry of Morike and Heinrich Heine, and narrative prose by Stifter, Keller, Fontane, and Raabe will be studied.

402. Modern German Literature

Lect.: 2 hrs.

A study of the trends in modern German literature. Hauptmann, Hofmannsthal, Rilke, George, the Expressionists, Mann, Kafka, Brecht.

451. Faust

Seminar: 2 hrs.

452. German Philosophy: Hegel's Phaenomenologie des Geists.

Seminar: 2 hrs.

Graduate Studies

The Department offers a graduate programme leading to the M.A. degree. Details of the M.A. programme are given under *Faculty of Graduate Studies*.

Key to Class Numbers: German

New	Old	New	Old	New	Old
100	11/12	301	31	400	34
200	13	302	32	401	36
201	14(17*)	303	33	402	37
202	—	351	—	451	41
251	—	352	35	452	—
300	21	353	—		

HEBREW

Special Lecturer..... J. B. Hardie

The classes are held at Pine Hill Divinity Hall, Franklyn Drive.

Classes Offered**101. Introductory Hebrew**

Lect.: 3 hrs.

Hebrew grammar and passages for easy reading.

202. Intermediate Hebrew

Lect.: 2 hrs.

Advanced grammar and syntax and historical reading.

303. Advanced Hebrew

Lect.: 2 hrs.

Seminar class.

HISTORY

<i>Professors</i>	- - -	P. B. Waite (Head of Dept.), G. E. Wilson, J. E. Flint, G. R. MacLean
<i>Associate Professors</i>	- - -	C. B. Feryusson, H. S. Granter
<i>Assistant Professors</i>	-	R. P. Bonine, P. Burroughs, D. H. Crook, T. K. Hareven, D. A. Muise
<i>Special Lecturers</i>	- -	J. M. Beck, B. Dombrowski, D. W. Stairs

Misprint in 1965-66 Calendar.

Classes in the History Department are set out as follows:

- 100 Introductory Classes.
- 200 Survey lecture classes.
- 300 Lecture classes with classroom discussion and short papers.
- 400/500 Seminars based on presentation and criticism of research papers.
- 600 Directed reading and research classes for individual graduate students under supervision.

Classes are offered in European, British Imperial, African, Canadian, and American History, in the periods: ancient*, medieval, early modern and colonial, modern.

Students who are majoring in History can elect any four classes after History 100.

Honour students elect, in consultation with the History Department, nine classes after History 100. Honour students in Combined Honours Programmes elect, in consultation with the History Department, at least five classes after History 100

Classes Offered

100. European History and Civilization, 400-1945.

D. H. Crooke, P. B. Waite

Lect.: 3 hrs. (2 sections)

A general survey of the politics and social history of Europe from the fall of the Roman Empire to the First World War. Specific outside reading is required. *Texts*: Brinton, Christopher and Wolff, *Civilization in the West*; Hammond's *Historical Atlas*; selected paperbacks.

200. The Middle Ages

Instructor to be announced

Lect.: 2 hrs.

Prerequisite: History 100. Analyses the evolution of a distinct type of society in Western Europe after the Barbarian Invasions. The social, economic, and institutional developments of the High Middle Ages, with particular emphasis on intellectual aspects, will be stressed. Recommended introductory readings: H. St. L. B. Moss, *The Birth of the Middle Ages*, 395-814.

201. History of Europe, 1300-1555. Instructor to be announced

Lect.: 2 hrs.

Prerequisite: History 100. An analysis of European society in transition with special emphasis on the Renaissance, the Reformation, the Catholic Reformation. Recommended introductory readings: Edward P. Cheyney, *The Dawn of a New Era*:1250-1453.

*Any class in Ancient History (see Classics) may be offered for credit as a History class, but no more than two may be so counted.

202. History of Europe, 1555-1715. Instructor to be announced

Lect.:

Prerequisite: History 100.

The religious and political revolutions, seventeenth century philosophical movements and the development of the State.

203. History of Europe, 1715-1815

G. E. Wilson

Lect.: 2 hrs.

Prerequisite: History 100. The chief subjects for study will be the French Revolution and the career of Napoleon. If possible, students should 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*.

204. History of Europe, 1814-1914

R. P. Bonine

Lect.: 3 hrs.

Prerequisite: History 100. An analysis of the period in terms of the development of ideologies.

205. History of Europe in the Twentieth Century

Instructor to be announced

Lect.: 3 hrs.

Prerequisite: History 100. A survey which includes the two world wars, political developments within the 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. *Text*: H. Stuart Hughes, *Contemporary Europe, a History*.

206. History of Russia and the Soviet Union

R. P. Bonine

Lect.: 3 hrs.

Prerequisite: History 100. A survey from the ninth century to the present.

210. History of England to 1714.

H. S. Granter

Lect.: 3 hrs.

Prerequisite: History 100. Aims to describe the foundations of society and government in England after the Germanic settlement and its evolution up to the end of the Stuart era.

211. History of England Since 1714 (1968-69)

H. S. Granter

Lect.: 3 hrs.

Prerequisite: History 100. The theme of the class 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.

213. History of the British Empire and Commonwealth.

P. Burroughs

Prerequisite: History 100. A survey of the growth of the British Empire with emphasis on the economic and constitutional aspects of British colonial policy and practice, and on the development of the Commonwealth.

220. History of Canada

D. A. Muise

Lect.: 3 hrs.

Prerequisite: History 100. A general survey of Canadian social, political and economic development from earliest times to the present. Some themes to be followed include: the evolution of French society in North America; the emergence of political regionalism in the late eighteenth and nineteenth centuries; Confederation and the growth of federal-provincial relations; and the evolution of modern political parties. *Text*: W. L. Morton, *The Kingdom of Canada*.

229. History of North America in the Colonial Period.

D. A. Muise

Lect.: 2 hrs.

Prerequisite: History 100. An introduction to the History of Canada and the United States up to 1791. Emphasis will be placed on the evolution and interaction of the British and French Empires in North America. Some themes to be followed include: the concept of mercantilism; government and society in French Canada; the rise of New England; and the struggle for the continent. The text for the class will be M. Savell and R. Mildekauff, *A History of Colonial America*.

230. American History.

D. H. Crook

Lect.: 2 hrs.

Prerequisite: History 100. A general survey of the American's history from discovery and foundation to the present. The political narrative shares emphasis with cultural, intellectual, social, and economic developments. In addition to reading in primary and secondary sources, students will write three essays during the term and are therefore urged to contact the instructor to make arrangements for Summer reading programmes.

240. History of Africa.

J. E. Flint

Lect.: 2 hrs.

Prerequisite: History 100. The first term will be devoted to the period before 1400, with emphasis on the emergence of the Negro race, the development of Negro agriculture and metal technology, and the creation of differing societies, states and empires, with consideration of Christian and Islamic influences. The second term will emphasise the effects of contact with Europe, the slave trade, the Islamic revolutions, the colonial period and the rise of nationalism. Recommended introductory reading: R. Oliver and J. D. Fage, *A Short History of Africa* (Penguin Books) and J. E. Flint, *Nigeria and Ghana* (Spectrum Books).

307. History of Central Europe, Sixteenth Century to the Present.

Instructor to be announced

Lect.: 2 hrs.

A study of the emergence of modern Germany, Austria, Hungary, and Czechoslovakia, with emphasis on political, religious, nationalist, and cultural forces.

314. England under the Tudors and Stuarts 1485-1714

(1968-69)

H. S. Granter

Lect.: 2 hrs.

Prerequisite: Two classes in History. An examination of the Tudor and Stuart revolutions in church, state, and society which established modern English polity before the Industrial Revolution of the late eighteenth and nineteenth centuries. This class will be conducted partly by the seminar method.

322. Canadian Economic History (= Economics 302).

N. H. Morse

331. A History of American Thought and Society (1968-69).

T. K. Hareven

Lect.: 2 hrs.

A study of major trends in American thought, their relationship to social and political developments, and their expression in literature, philosophy, religion, and economics. Due emphasis will be placed on European influences on American culture.

340. History of Latin America**405. The Weimar Republic and Hitler's Germany**

Instructor to be announced

Lect.: 2 hrs.

Prerequisite: History 205 or an approved class in twentieth-century European history. This seminar is intended primarily for students in their junior and senior years and will cover the causes of the 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 class.

406/506. History of Russia Since 1790.

R. P. Bonine

Prerequisite: History 206 or permission of the instructor. A seminar in Russian political thought and action: Slavophilism and Pan Slavism, Populism and Nihilism, Marxism.

414/514. Britain and the Empire 1783-1855. P. Burroughs

A seminar course on the development of British Colonial policy and practice in the period between American independence and the grants of responsible government, the various movements for administrative colonial reform, and the attitudes of Englishmen to the expanding France.

417/517. A Period in Nineteenth Century English History.
H. S. Granter

A two-hour seminar class primarily for honour and graduate students. Others may be admitted at the discretion of the instructor.

418/518. The Age of "Imperialism", 1870-1914. J. E. Flint

A seminar class for graduate students. A consideration of the themes and problems of "imperialism"; its economic background, political, and international aspects; its ideology. Select studies of individual "imperialists" will be undertaken by students, as well as case studies of particular areas. A reading guide will be available from the Department of History.

420/520. History of Canada, 1837-1896 (1968-69). P. B. Waite

Prerequisite: History 220. A seminar 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.

421/521. History of Canada, 1896-1967. D. A. Muise

Prerequisite: History 220. A seminar primarily for Honour and M.A. students. Other students may be admitted at the discretion of the instructor. Some themes to be followed include: the growth of modern political parties; Canadian-American relations; Federal-Provincial affairs; social and economic developments. Students will be expected to prepare and present papers based on research in primary documents.

422/522. History of Canadian External Relations.
D. W. Stairs

Seminar: 2 hrs.

A seminar class on the development of Canadian foreign and defence policy designed primarily for graduate students in history and political science. Participants will be expected to prepare research papers based for the most part upon documentary and other primary sources, and particular emphasis will be placed on the years since 1939. Appropriately qualified undergraduate students may be admitted with the permission of the instructor.

424/524. Canadian Constitutional Law. W. A. MacKay
Faculty of Law

Prerequisite: History 220, Political Science 100. By special arrangement with the Faculty of Law. Permission of the instructor will be required. Preparatory summer reading may be assigned.

425/525. Canadian-American Relations.
Instructor to be announced

Prerequisite: History 220. A seminar class primarily for honour and graduate students. Others may be admitted at the discretion of the instructor. Emphasis will be placed on the impact of the American Revolution upon Nova Scotia and Quebec, the influence of the War of 1812 and Jacksonian Democracy upon Canadian development, the reciprocity movement, the United States and Confederation, the United States and the Canadian West, the Reciprocity Crisis of 1910-11, and United States-Canadian relations from 1914 to the present.

427/527. Canadian History with Special Reference to Nova Scotia. C. B. Ferguson

Prerequisite: History 220. A seminar class for Honour and graduate students. All others must obtain the consent of the instructor. Students will have opportunity for some training in the use of original records.

428/528. Politics in Nova Scotia since Confederation.
J. M. Beck

A seminar class with the Political Science department for Honour and graduate students. The topics to be discussed will deal with the evolution of Nova Scotia governmental and political institutions, and with the current state of Nova Scotia politics. Permission of the instructor will be required for this class.

431/531. The American Revolution, 1763-1787. P. Burroughs

Prerequisite: History 100 and approval of the instructor. A seminar class on the causes of the American Revolution and the framing of the constitution.

433/533. The Americans from 1878 to 1929 (1967-68).
D. H. Crook

A seminar for honour and graduate students. Work is directed to the preparation of a scholarly paper from primary sources on specific aspects of general tendencies in political, economic, social, cultural, and intellectual developments from the end of the post Civil War Reconstruction to the Great Market Crash. Prospective participants are urged to consult the instructor prior to registration. History 230, or its equivalents, though not prerequisite, is useful means of preparation.

434/534. *The United States, 1900 to the Present (1968-69)*.
T. K. Haraven

A seminar with emphasis on the social and political reform movements, during the Progressive Era, the 1920's, the New Deal, and World War II.

500. *A History of Historical Writing and the Philosophy of History*.
Instructor to be announced

Special emphasis will be placed on the variety of historical expression, the nature of history causation, moral judgments in history; and the relationship of history to the social sciences. Students will have an opportunity to apply these problems to their special fields of interest.

Graduate Studies

An M.A. and Ph.D. programme in History are offered. See *Faculty of Graduate Studies*. (Dalhousie Calendar)

Key to Class Numbers: History

New	Old	New	Old	New	Old
100	1	229	—	418/518	—
200	7	230	11	420/520	27
201	14	240	—	421/521	—
202	—	307	—	422/522	—
203	5	314	26	424/524	—
204	4	322	—	425/525	9
205	19	331	—	427/527	10
206	13	340	29	428/528	31
210	3	405	21	431/531	18
211	6	406/506	28	433/533	12
213	20	414/514	—	434/534	25
220	8	417/517	17	500	—

MATHEMATICS

Professors.....A. J. Tingley (Head of Dept.) J. G. Adshead,
M. Edelstein, H. S. Heaps (Part-time)
Associate Professors.....J. R. Baines, E. Blum, D. G. Kabe
Assistant Professors.....L. Artiaga, P. Basavappa
H. D. Cochrane, E. L. Heighton, M. J. L. Kirby
E. B. Mercer (Part-time), R. B. Reed
G. Steiner, A. C. Thompson

Students who wish to take Honours in Mathematics should consult the Head of the Department before the end of the first year.

Honours in Mathematics Major Programme B.A.

The following programme will normally be followed by students who plan to take a B.A. with Honours in Mathematics. Adjustments which do not conflict with the general regulations may be made. Mathematics 204, 300 and 303 are required.

- YEAR I Mathematics 100, English 100, one class from Group A, one class from Group C, and one class from Group D in addition to Mathematics 100.
- YEAR II Mathematics 200, Mathematics 204, one class from Group B, one from Group C, and one other class.
- YEAR III and
YEAR IV Seven classes in Mathematics including Mathematics 300 and Mathematics 303 of which at least four will be numbered 300 or above and at least two 400 or above, together with three additional classes which conform with the general regulations.

Major Programme B.Sc.

The following programme will normally be followed by students who plan to take a B.Sc. with Honours in Mathematics. Adjustments which do not conflict with the general regulations may be made. Mathematics 204, 300 and 303 are required.

- YEAR I Mathematics 100, Physics 110, English 100, a modern language (usually French, German, or Russian), a class from group C.
- YEAR II Mathematics 200, Mathematics 204, a class in Physics, two classes from Group A, B and C (a second class in language taken in Year I is strongly recommended).
- YEAR III and
YEAR IV Seven classes in Mathematics including Mathematics 300 and Mathematics 303 of which at least four will be numbered 300 or above and at least two 400 or above, together with three additional classes which conform with the general regulations.

Combined Honour Programmes

Students interested in taking Honours in Mathematics and another subject as a combined programme should consult the Head of the Department, through whom a suitable course of study can be arranged.

Classes Offered

Alterations may be made in the list below at the beginning of the academic year. Students are asked to check, at the time of registration, with notices on the department and University bulletin boards.

001 Mathematical Analysis.

A. J. Tingley and others

Lect.: 3 hrs.

Prerequisite: Junior Matriculation, Algebra and Geometry. This class is only for students registered before 1966. Algebra, including coordinates, graphs, logarithms, the binomial theorem, matrices and determinants, plane trigonometry, including the addition theorems and theoretical solution of triangles. Introduction to analytic geometry.

100 Calculus, With Analytic Geometry.

Lect.: 3 hrs.

J. G. Adshead and others

Prerequisite: Senior Matriculation, Mathematics, including Algebra, Analytic Geometry and Trigonometry. Review of function and analytic geometry of two dimensions. Limits. Derivatives and Integrals. Convergence of infinite series. Analytic geometry of three dimensions.

106. Elementary Statistics, and Probability Theory With Applications.

Instructor: A. J. Tingley

Lect.: 3 hrs.

Analysis of data. Confidence Intervals. Tests of Significance. Non-parametric Statistics. Probability Theory. Markov Chains. Decision Theory.

118. Elementary Topology.

M. Edelstein

Lect.: 3 hrs.

Prerequisite: Registration in Mathematics 100. Sets and mappings. Topological spaces and homeomorphisms. Surfaces, two-sidedness and orientability. Euler's theorem on polyhedra. Metric spaces and metric topology. Connectedness and compactness. Topics in the topology of the plane.

Intermediate Classes**200. Advanced Calculus.**

P. Basavappa, M. Edelstein

Lect.: 3 hrs.

Prerequisite: Mathematics 100. The real and complex number systems. Infinite series. Partial derivatives and applications. Further work on integration (line, multiple, surface, and contour integrals). Analytic function theory. Differential equations.

203. Algebra.

H. D. Cochrane

Lect.: 3 hrs.

Prerequisite: Mathematics 100. Integral domains, factorization of integers, the field of rational numbers. Vector spaces, linear transformations and matrices, inversion of matrices. Polynomial domains, factorization of polynomials, solution of polynomial equations.

204. Linear Algebra.

P. Basavappa

Lect.: 3 hrs.

Prerequisite: Mathematics 100. Algebra of Matrices. Abstract vector spaces. Linear equations. Linear transformations. Representation of linear transformations by matrices. Normal forms for matrices, including Jordan normal form. Determinants. Quadratic forms. Applications.

205. Projective Geometry.

J. G. Adshead

Lect.: 3 hrs.

Prerequisite: Mathematics 100. The study of invariants under the group of linear transformations in the plane. Projective properties of lines and conics. Special subgroups leading to affine geometry and the metric geometries obtained by means of the absolute conic.

206. Probability and Mathematical Statistics

D. G. Kabe

Lect.: 3 hrs.

Prerequisite: Mathematics 100. 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.

208. Calculus for Engineers.

L. Artiaga

Lect.: 3 hrs.

Prerequisite: Mathematics 100. This class will contain a revision and amplification of previous work but it will also include some work that is given in Mathematics 200 and Mathematics 220, 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.

220. Applied Mathematics.

E. Blum

Lect.: 3 hrs.

Prerequisite: Registration in Mathematics 200. This class introduces students of Physics, Engineering and Mathematics to those fields of Mathematics which are connected with practical problems. The class includes the topics Vector Analysis, Matrices and Determinants, Fourier Series, Laplace Transforms, Orthogonal Functions and Complex Analytic Functions.

227. Numerical Methods and Fortran Programming.

J. R. Baines

Lect.: 3 hrs.

Prerequisite: Mathematics 100. Fortran programming applied to practical computing methods. Numerical differentiation, integration, interpolation, solution of algebraic equations. Linear systems and

differential equations. *Text:* McCracken and Dorn. Numerical Methods and Fortran Programming.

228. Applied Mathematics for Engineers I. R. B. Reed

Lect.: 3 hrs.

Prerequisite: Mathematics 100. Vector algebra and calculus, including vector operators. Multiple and line integrals. Introductory complex variables. Differential equations. This class is designed with applications specifically in mind. It is intended for engineering students who do not take Mathematics 200 and 220.

240. Introduction to Computer Science.

Lect.: 3 hrs.

Prerequisite: English 100, Mathematics 100. An introductory class on the efficient use of digital computers.

- (a) Characteristics of procedure-oriented languages. Formulation of problems in form suitable for compilation and execution using COBOL and FORTRAN.
- (b) Description of digital computers. The general structure of computers, machine instructions, and the representation of information.
- (c) Introduction to algorithms. The intuitive notion of an algorithm and its representation in narrative form by use of flow charts.

Advanced Classes

300. Introductory Analysis. R. B. Reed

Lect.: 3 hrs.

Prerequisite Mathematics 200. Number systems, metric spaces and elementary point-set topology, sequences, continuity, differentiation and integration. Holomorphic functions, contour integrals, power series and residues.

303. Modern Algebra. H. D. Cochrane

Lect.: 2 hrs.

Finite groups, homomorphisms, composition series, Abelian groups, algebraic fields, extension field, root fields of polynomials, the Galois group, Galois theory of equations.

304. Foundations of Analysis. G. Steiner.

Lect.: 2 hrs.

Prerequisite: Mathematics 200. Finite and infinite sets; cardinal and ordinal numbers; transfinite arithmetic; axioms of choice and its equivalents; topological structure of the real line; metric spaces.

305. Differential Geometry and Tensor Analysis. J. G. Adshead

Lect.: 3 hrs.

Classical theory of curves and surfaces in three dimensions, leading to the finding of curvature and geodesics as dependent only on the surface metric. Surfaces of constant curvature and the derivation of the geometry and trigonometry of the plane, the sphere and the pseudosphere. Tensors, including vectors, and their application to classical differential geometry.

306. Probability. A. J. Tingley

Lect.: 2 hrs.

Topics covered will include axiomatic probability, Markov chains, probability distributions. Various distribution functions will be derived.

312. Differential Equations. E. Blum

Lect.: 2 hrs.

This class will discuss basic methods in solving differential equations, such as substitutions, operators, transforms, solution by series. The part ordinary differential equations includes the topics Laplace Transforms and solution by series, Bessel functions and Legendre polynomials. The part Partial Differential Equations includes solution of problems by Fourier's method.

320. Numerical Analysis. J. R. Baines

Lect.: 3 hrs.

Prerequisite: Mathematics 200 and consent of instructor. Among topics to be discussed will be, interpolation, quadrature, approximation of functions and non-linear algebraic equations. Numerical solution of differential equations and problems in linear algebra will be introduced. Desk calculating machines will be available for problem solving and students will be encouraged to utilize the automatic digital computer.

328. Applied Mathematics for Engineers II.

Lect.: 3 hrs.

Prerequisite: Mathematics 228. An introduction to computing and numerical methods, probability, matrix theory, transform methods and partial differential equations. This class is designed as a complement to Mathematics 228.

330. Linear and Integer Programming with Applications.

M. J. L. Kirby

Lect.: 2 hrs.

Prerequisite: Mathematics 200, 204. The development of the simplex algorithm for the optimization of a linear function subject to linear constraints. Theory and computational aspects of the simplex and dual methods. Special topics include Sensitivity Analysis, Game Theory, and Decomposition. Applications include transportation models and network models. Algorithms for integer programming problems. Applications to problems of finding economic optima in industrial operations will be stressed. Specific topics will include applications to production scheduling and sequencing, capital budgeting decisions, allocation of resources, and optimization in economics at the levels of the firm and the economy. *Recommended Books*: Hadley: *Linear Programming* and Dantzig; *Linear Programming and Extensions*.

401. Measure Theory and Integration.

Lect.: 2 hrs.

Prerequisite: Mathematics 300, Constructive and axiomatic set theory; measurable functions; Lebesgue and Daniell integrals; convergence theorems; Fubini's theorem; Radon-Nikodym Theorem; Haar measure.

402. Theory of Functions of a Complex Variable

L. Artiaga

Lect.: 2 hrs.

Complex plane, elementary functions, conformal mappings, power series, Laurent series, Cauchy's integral theorem, calculus of residues, Riemann Mapping theorem, entire functions, harmonic and sub-harmonic functions.

403. Advanced Modern Algebra.

Lect.: 2 hrs.

Prerequisite: Mathematics 303. This class will take up topics in Modern Algebra beyond the level of Mathematics 303.

406. Estimation and Testing.

D. G. Kabe

Lect.: 2 hrs.

Prerequisite: Mathematics 200, 204, 206. Estimation: Methods of estimation. Maximum likelihood estimation. Asymptotic properties of estimators. Minimal and complete sufficient statistics. Rao-Blackwell and Blackwell-Lehmann-Scheffe theorems. Pitman's-Koopman's theorem on exponential family. Fisher's information measure. Multiparameter estimation. Minimax and Bayes' estimation. Confidence intervals. Non-parametric estimation. Testing: Neyman-Pearson lemma on unbiased best critical regions and

its generalizations. UMP and locally UMP tests. Composite hypothesis. Construction of similar regions. Likelihood ratio tests. Pitman's ARE. Short and shortest unbiased critical regions Bayesian testing of hypothesis. Nonparametric testing.

408. Applied Stochastic Process.

D. G. Kabe

Lect.: 2 hrs.

Prerequisite: Mathematics 300 and a class in Statistics. Characteristics of a stochastic process. Regular (or second order) stochastic processes. Stochastic differentiation, integration, mean value theorem, Taylor's theorem, etc. Stochastic difference, differential and (convolution type) integral equations. Stationarity properties. Markov chains and continuous and discontinuous Markov processes. Poisson and compound Poisson processes. Sums of independent random variables, random walks and fluctuation theory. Diffusion processes, Chapman-Kolmogorov and Feller-Kolmogorov equations. Brownian motion. Diffusion processes. Renewal theory. Queuing theory: single and multiple channels. *Recommended books*: Prabhu's book on Stochastic Processes, and Queuing theory from Karlin's book on Stochastic Processes.

414. Functional Analysis.

Lect.: 2 hours.

Prerequisite: Mathematics 204, 300, 304. Contraction mapping principle and applications; isometrics; the completion of a metric space. Linear spaces, bases, dimension. Convex sets.

Linear operators and functionals, extensions. Normed linear spaces; continuous linear operators and functionals, the Hahn-Danach Theorem. Separation theorems, Krein-Hilman Theorem. Closed-graph and uniform boundedness theorems. Conjugate space, reflexivity, weak topologies. The algebra of continuous linear operators. Spectrum and resolvent. Hilbert space, spectral theory, compact operators.

418. Algebraic Topology.

M. Edelstein

Lect.: 2 hours.

Prerequisite: Mathematics 303, 420 (can be taken concurrently). Homotopy, the fundamental group. Homology of simplicial complexes; singular homology; theorems of Kelly-Pitcher and Mayer-Victoris; invariance of homology groups; cohomology, dualities.

420. General Topology.

M. Edelstein

Lect.: 2 hours.

Prerequisite: Mathematics 304. Topological spaces: Relativization, bases, compactness, connectedness. Moore-Smith Convergence: Nets, subnets, and convergence classes. Product and quotient spaces. Embedding and metrization. Compactifications. Uniform spaces and completion problems. Function spaces.

421. Eigenvalue and Boundry Value Problems. J. R. Baines

Lect.: 2 hrs.

Prerequisite: Work in analysis and differential equations beyond Mathematics 200. Eigenvalue problems in the theory of matrices and of difference, dicerential and integral equations. In particular, the sets of orthogonal functions generated by Sturm-Louville problem will be treated together with their application to the solution of the partial differential equations of physics.

430. Analysis of Inventory Systems. M. J. L. Kirby

Lect.: 2 hrs.

Prerequisite: Mathematics 200 and 306. First part of class considers steady state inventory systems: deterministic inventory systems, stochastic periodic review systems, and stochastic continuous review systems. Second half of course involves dynamic inventory models. The Arrow-Harris-Marschak model. Models with varying stochastic demands. Models with time lags. Markov sequential decision processes are also discussed. Other approaches to dynamic inventory problems are included: Use of linear decision rules and linear programming methods. Applications will be stressed, particularly in relation to the theory of production. *Recommended Books:* Naddor, *Inventory Systems*; Hadley and Whiting, *Analysis of Inventory Systems*.

435. Calculus and Variations and the Theory of Optimal Control. M. J. L. Kirby

Lect.: 2 hours.

Prerequisite: Work in Analysis and Differential Regulations. Classical theory of the calculus of variations. Theory of fields. Hamilton-Jacobi theory, Generalizations of the fundamental problem to include variations of multiple integrals, the isoperimetric problem, the Lagrange problem. Direct methods are discussed in detail. The maximum principle of the theory of optimal control. Recent developments in control theory. Relations between the Euler equation and the maximum principle, and relations between the maximum principle and the principle of optimality are discussed. Applications of both the calculus of variations and control theory to physical systems and economic systems will be stressed.

Graduate Studies

Students who wish to work towards a Master's degree in Mathematics may do so in Arts and Science, it being usually necessary to spend two full years after obtaining a B.A. or B.Sc. degree or one year after an Honour degree. For details of such courses, see Faculty of Graduate Studies. (Dalhousie Calendar).

Key to Class Numbers: Mathematics

New	Old	New	Old	New	Old
001	100	227	—	320	420
100	200	228	328	328	—
106	—	240	—	330	—
118	218	300	—	401	—
200	300	301	401	402	—
203	303	302	402	403	503
204	350	303	403	406	—
205	305	304	—	408	—
206	306	305	405	414	514
208	308	306	406	418	418
220	320	312	412	420	518
		315	450	421	421
				425	425
				430	—
				435	—

MUSIC

Associate Professor..... D. F. Wilson
 Assistant Professor..... V. A. Ellis

101. History and Appreciation of Music.

Lect.: 3 hrs.

Intended primarily for students who have not studied music. The class 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: Brandt, The Way of Music.*

102. Music in the Twentieth Century

Lect.: 3 hrs.

Traces the development of music from the late nineteenth century to the present, with a study of the leading composers of the twentieth century. This class is also for students who have studied music. *Texts: Machlis, Introduction to Contemporary Music.*

OCEANOGRAPHY

Although the programme of the Institute of Oceanography is essentially for Graduate Students, some classes in the field of Oceanography may be taken by senior undergraduates. These classes are listed amongst the offerings by the Biology, Chemistry and Geology departments. Interested students must obtain the permission of the department heads concerned to register for these classes.

PHILOSOPHY

Professors..... F. H. Page (Head of Dept.), D. Braybrooke
 Associate Professors..... R. H. Vingoe, I. A. MacLennan
 Lecturer B. J. Aston
 Special Lecturers..... J. A. Doull, R. D. Crouse

The General Course with a Major in Philosophy

There are no special departmental stipulations. It should be noted, however, that for admission to graduate study the minimum requirement is four classes in Philosophy, beyond Philosophy 100, including Philosophy 200 and Philosophy 230. All students proposing to take the General Course with a Major in Philosophy should consult Professor I. A. MacLennan.

The Honour Course in Philosophy

Students intending to specialize in Philosophy should take the Honour Course. It is the normal preparation for graduate study.

The prerequisite class, Philosophy 100, should be taken in the first year, together with a language (French or German or Latin or Greek),

a social science and, unless exempted, English and a class in science or mathematics. If exemptions are permitted Philosophy 200 may be taken in the first year, in addition to Philosophy 100, and another class in Philosophy substituted in the second year. While normally begun in the second year, the Honour course may be entered in the third year, with the permission of the Department, if a satisfactory grouping of the classes can be arranged. Beyond the work of the first year, the Honour course generally consists of nine classes in Philosophy, two classes in a minor subject approved by the Department, and four elective classes in at least two subjects other than Philosophy. A suggested order of classes is as follows:

Year	Philosophy Classes	Ancillary Classes
I	Philosophy 100	four other first-year classes as stated above
II	Philosophy 200; Philosophy 205 or 210; Philosophy 230	minor; elective
III	Philosophy 210 or 205; Philosophy 320*; one other class in Philosophy	minor; elective
IV	Three classes in Philosophy including Philosophy 320* if not already taken.	two electives

NOTE: The effect of the general regulations for the degree of B.A. with Honours is to require the inclusion among the ancillary classes of Classics 100 or History 100, and a class in a second subject in Social Science.

There will be a comprehensive examination at the end of the final year.

Each student's Honour programme will be arranged individually in consultation with the Department and in relation to the student's special interests.

All students wishing to take Honours should consult Professor I. A. MacLennan.

*Philosophy 320 is offered in alternate years. If offered in a student's third year it must be taken then; if not, it is to be deferred until the fourth year, and another class in Philosophy taken in its place in the third year.

**Philosophy and Economics
Combined Honour Programme**

Year	Philosophy	Economics	Other Classes
I	Philosophy 100	Economics 100	a modern language; Political Science 100 or Sociology 100; Mathematics 100
II	Philosophy 200; Philosophy 210	Economics 200; Economics 202	English 100
III & IV	two classes in Philo- sophy including one of Philosophy 205, 230, 320	three classes in Economics includ- ing Economics 201	History 100; two electives
	Philosophy 340 (same class as Economics 407); an advanced class in either Philo- sophy or Economics		

**Philosophy and English
Combined Honour Programme**

Year	Philosophy	English	Other Classes
I	Philosophy 100	English 100	French or German or Latin or Greek; a social science; a science or Mathe- matics (or, if ex- empted, History 100 or Classics 100)
II	Philosophy 200 or 205 or 210	English 252; English 251 or 352	a second subject in social science; a sec- ond language class (in the same lang- uage as chosen in Year I)
III	a second choice from Philosophy 200, 205, 210; Philosophy 230	English 353; English 251 or 452	History 211 or 204, if History 100 taken in Year I; if not, then History 100
IV	Philosophy 235 or 240; one of Philo- sophy 315, 320, 325, 330; one other class in Philosophy	one of English 453, 209, 208	One elective chosen from History, Clas- sics, Modern Lang- uages, Art History, Music

**Philosophy and Political Science
Combined Honour Programme**

YEAR I Philosophy 100; Political Science 100; English; a foreign language; a class in Science or Mathematics.

YEAR II, III and IV There are two options. In option A, the student takes four or five classes in Philosophy and seven or six in Political Science. In option B, the proportions are reversed.

Option A:

Three classes from Philosophy 200, 205, 210, 230, 320, of which at least one is to be taken in each of Years II and III; and one or two other classes in Philosophy.

Two classes from Political Science 240, 242, 244, 246, 340*; two classes in Political Science not in this group; and two or three classes in Political Science freely chosen.

Option B:

Four classes from Philosophy 200, 205, 210, 230, 320, of which one at least is to be taken in each of Years II and III and three before Year IV; and two or three other classes in Philosophy.

One class from Political Science 240, 242, 244, 246, 340*; two classes in Political Science not in this group; and one or two classes in Political Science freely chosen.

In addition students electing either Option will in the second year take a second subject in the Social Sciences and a second subject in the Humanities; and in each of the third and fourth years, an elective.

* Philosophy 340, the Seminar in Philosophy, Politics and Economics, is the same as Political Science 349. It may be counted either among the Philosophy classes making up the combined programme, or among the Political Science classes, but not both.

**Philosophy and Psychology
Combined Honour Programme**

Year	Philosophy	Psychology	Other Classes
I	Philosophy 100	Psychology 100	a foreign language; English 100; a class in Science or Math- ematics
II	Philosophy 200; one of Philosophy 205, 210, 230	Psychology 200; Psychology 201	Classics 100 or His- tory 100; OR Economics 100 or Political Science 100 or Sociology 100
III	two of Philosophy 205*, 210*, 230*, 320**; or, if Philos- ophy 320 is chosen and deferred to Year IV, one of Philoso- phy 205*, 210*, 230*, and one other class in Philosophy	Psychology 357 one of Psychology 304, 305, 306, 308, 309, 310, 312	Classics 100 or History 100, if not taken in Year II; or Economics 100 or Political Science 100 or Sociology 100, if not taken in Year II
IV	one class in Philoso- phy which may be Philosophy 320, if Philosophy 320 was not taken in Year III one other class in Philosophy or Psychol- ogy 465	Psychology 470	two electives

*If not taken in Year II.

**Philosophy 320 is offered in alternate years.

**Philosophy and Sociology
Combined Honour Programme**

Year	Philosophy	Sociology	Other Classes
I	Philosophy 100	Sociology/Anthropol- ogy 100	Foreign Language; History; a class in Science or Mathe- matics
II	Philosophy 200 Philosophy 230	Sociology 202	English; elective
III	two of Philosophy 205, 210, 230	Sociology 301; Sociology 305	Elective
IV	two classes in Philoso- phy	two classes of Year III or IV Sociology	Elective

Classes Offered²

100. An Introduction to Philosophy I. A. MacLennan
B. J. Aston

Lect.: 3 hrs. (2 sections)

An introduction to the nature of philosophical problems in general and method in philosophy. The class will provide a short introduction to logic, and a critical examination of the views of Plato on such topics as the nature of the soul; the nature of justice; and the nature and possibility of human knowledge. Time will also be devoted to such questions as the nature of factual knowledge; the possibility of knowledge in general; the nature of scientific or natural law; the nature of truth. The class is not a survey of the history of philosophy.

Texts: Plato, *Republic* (ed. Cornford); Russell, *The Problems of Philosophy*; Russell, *A History of Western Philosophy*.

200. Logic D. Braybrooke

Lect.: 3 hrs.

The course will begin by developing deductive techniques. Standard notations, methods and principles for determining the validity and invalidity of arguments will be used, and there will be a considerable amount of practice in the processes of symbolic logic. Philosophical problems concerning the foundations of Logic and Mathematics will then be treated. *Texts:* Copi, *Symbolic Logic*; Kneale, *The Development of Logic*; Korner, *The Philosophy of Mathematics*; Nagel and Newman, *Godel's Proof*; Quine, *Methods of Logic*; Suppes, *An Introduction to Logic*.

205. Epistemology B. J. Aston

Two lectures and a seminar each week.

Prerequisite: Philosophy 100. An investigation of the main problems encountered in analysing human knowledge, and an examination of traditional and contemporary approaches to these problems. *Texts:* Hume, *A Treatise of Human Nature*, Book I; Lewis, *Mind and the World Order*; Strawson, *Individuals*.

210. Ethics I. A. MacLennan

Lect.: 3 hrs.

Prerequisite: Philosophy 100. After a preliminary survey of the range of ethical teachings, ancient and modern, the reasons for skepticism about there being universal foundations for ethics will be investigated and the peculiar features of ethical discourse will be explicated. Then the ethical theories of Hume, Kant and Bentham will be closely studied

² Additions or changes may be announced at the beginning of the Session.

and reconciled so far as possible with each other and with the demands of the present age. *Texts*: Mothersill, *Ethics*; Wellman, *The Language of Ethics*; Hume: *Treatise of Human Nature* and *Inquiry Concerning the Principles of Morals*; Kant, *Foundations of the Metaphysics of Morals* (tr. Beck) and *Critique of Practical Reason* (tr. Beck); Bentham, *Principles of Morals and Legislation*.

215. Philosophy and Science Course.
Nct to be offered in 1967-68.

Lect.: 2 hrs.

Prerequisite: Philosophy 100 or first-year Science complete. Others may be admitted with the permission of the instructor.

The purpose of this course is to introduce students to philosophy in two ways: primarily, through an examination of scientific method; secondarily, through an account of the influence of various interpretations of scientific method upon the philosophy of religion. *Texts*: Madden, *The Structure of Scientific Thought*; Burt, *Types of Religious Philosophy*.

220. Philosophy of Religion I. (1968-69 and in alternate years)
F. H. Page

Lect.: 2 hrs.

Prerequisite: Philosophy 100. An introduction to the philosophy of religion. The identification and clarification of religious concepts, and the uses of religious language, are first discussed. The theistic arguments and counter-arguments are examined and the epistemological status of divine revelation, religious experience, and religious faith investigated. Other topics include the problem of evil, immortality, the relation of science to religion, and the religious alternatives to theism. *Texts*: Alston, *Religious Belief and Philosophical Thought*; Pike (ed.) *God and Evil*; Hick, *The Philosophy of Religion*.

225. Philosophy of Religion II (1967-68, and in alternate years)
F. H. Page

Lect.: 2 hrs.

Prerequisite: Philosophy 100 or Psychology 100. An introduction to the contemporary psychology of religion. The class begins with an examination of psychological accounts of religion, particularly the Freudian. The psychology of the moral conscience and development of religious forms of behaviour through the life-history of the individual are discussed. Conversion, prayer, ritual, worship and mystical experiences are considered in the light of current theories of learning, motivation and personality. *Texts*: Clark, *The Psychology of Religion*; Freud, *The Future of an Illusion*; Philp, *Freud and Religious Belief*; Allport, *The Individual and his Religion*; Argyle, *Religious Behaviour*; Thouless, *An Introduction to the Psychology of Religion*; James, *The Varieties of Religious Experience*.

230. General History of Philosophy R. H. Vingoe

Lect.: 3 hrs.

Prerequisite: Philosophy 100. The purpose of this class is to help students discover those philosophic traditions which have entered into the moulding of western civilization and still persist in the contemporary world. Since the field of study is large, an attempt will be made to concentrate upon some of the greatest and most influential of western philosophers. *Text*: Jones, *A History of Western Philosophy*.

235. Ancient Philosophy R. H. Vingoe, R. D. Crouse

Lect.: 2 hrs.

Prerequisite: Philosophy 100. The first term (until Christmas) will be devoted to the history of Greek philosophy from Thales to Plato; the second term to the later history of ancient thought from Aristotle to St. Augustine. *First term texts*: Kirk and Raven, *The Pre-Cocratic Philosophers*; Allen, *Greek Philosophy, Thales to Aristotle*.

240. History of Medieval Philosophy R. D. Crouse

Lect.: 2 hrs.

Prerequisite: Philosophy 100. A study of the development of philosophy from the fifth century to the fifteenth, with special attention to Anselm, Thomas Aquinas, and William Occam. *Texts*: to be announced.

315. Rationalism and Empiricism (1967-68 and alternate years)
R. H. Vingoe

Lect.: 2 hrs.

Prerequisite: Philosophy 100. The purpose of this class is to acquaint students with some of the dominant themes of early modern western philosophy. Particular attention will be paid to Locke, Berkeley, Hume, Descartes, Spinoza, and Leibniz. *Texts*: Smith and Grene, *Philosophers Speak for Themselves* (two volumes: *Descartes to Locke* and *Berkeley, Hume, and Kant*).

320. The Philosophy of Kant (1968-69 and alternate years)
I. A. MacLennan

Seminar: 2 hrs.

Prerequisite: Philosophy 100. A seminar devoted to an intensive study of the *Critique of Pure Reason*. However, other aspects of Kant's philosophy will also be treated, and an attempt will be made to relate his philosophy as a whole to that of his predecessors and contemporaries. Finally, his influence on later philosophers will be considered. *Text*: Kant, *Critique of Pure Reason* (tr. Norman Kemp Smith).

325. Contemporary Continental Philosophy (1967-68 and alternate years) I. A. MacLennan

Seminar: 2 hrs.

Prerequisite: Philosophy 100. This class will begin with a study of works by Kierkegaard and Nietzsche. The development of existentialist philosophy will then be traced to the present day and contrasted with other philosophical traditions. Particular reference will be made to works of Heidegger, Jasper, Sartre, Marcel and Buber.

Texts: Reinhardt, *The Existentialist Revolt*; Nietzsche, *The Birth of Tragedy and The Genealogy of Morals*; Kierkegaard, *Fear and Trembling and The Sickness unto Death*; Jaspers, *Reason and Existenz*; Sartre, *Existentialism and Humanism and The Transcendence of the Ego*; Marcel, *The Philosophy of Existentialism*; Buber, *Eclipse of God*; Urmson, *Philosophical Analysis*.

330. Twentieth Century British Philosophy (1967-68 and alternate years) B. J. Aston

Two lectures and a seminar each week.

Prerequisite: Philosophy 100. A survey of the development of British Philosophy from Bradley's idealism to contemporary conceptual analysis. *Texts:* Warnock, *English Philosophy Since 1900*; Urmson, *Philosophical Analysis*; Bradley, *Appearance and Reality*; Russell, *Logic and Knowledge (ed. Marsh)*; Ammerman (ed.) *Classics of Analytic Philosophy*; Wittgenstein, *Tractatus Logico-Philosophicus*; and *Philosophical Investigations*; Austin, *Philosophical Papers*.

335. Philosophical Analysis (1966-67 and alternate years) B. J. Aston

Two lectures and a seminar each week.

Prerequisite: Philosophy 100. A large part of the first term will be devoted to an examination of the nature of analysis as a philosophical method. The remainder of the class will be spent studying how this method can be applied to specific philosophical problems chosen from the fields of epistemology and the philosophy of the mind. *Texts:* Flew, *Logic and Language* (first and second series); Ryle: *The Concept of Mind*; Austin, *Philosophical Papers*; Wittgenstein, *Philosophical Investigations*; Feigl and Sellars, *Readings in Philosophical Analysis*.

340. Philosophy, Politics, and Economics D. Braybrooke

Seminar : 2 hrs.

Prerequisite: Philosophy 100. Various topics on which the subjects of philosophy, political science, and economics converge will be investigated, among them: standards for evaluating governments such as natural rights, welfare, majority rule, and efficiency; the concept of rational action; the relationship between action explanations and be-

haviour explanations in social science; and the uses of social science in making decisions and choosing policies. Readings in such authors as Aristotle, Butler; Hicks, Little, Boulding; Marx, Weber; Herring, Downs, Arrow, Schelling; Popper, Dahl and Lindblom, and Simon.

345. Problems of the Self Course.
Not to be offered in 1967-68.

Lect.: 3 hrs.

Prerequisite: Philosophy 100. An investigation, historical and topical, of the theories of mind and person. Personal identity, the nature of mind, the relation of mind and body, minds and machines, and our knowledge of other minds are among the topics treated. *Texts:* Broad, *The Mind and its Place in Nature*; Ellis, *The Idea of the Soul in Western Philosophy and Science*; Russell, *The Analysis of the Mind*; Laslett (ed.) *The Physical Basis of Mind*; Mounier, *Personalism*; Ryle, *The Concept of the Mind*; Wisdom, *Problems of Mind and Matter*; Chappell (ed.), *The Philosophy of Mind*; Scher (ed.), *Theories of the Mind*; Shaffer, *Philosophy of Mind*.

F. H. Page

460/560. Contemporary Philosophy of Religion.

F. H. Page

Seminar: 2 hrs.

Graduate Studies

The Department of Philosophy provides opportunities for graduate study leading to the degree of Master of Arts in the History of Philosophy, Metaphysics, Epistemology, the Philosophy of the Mind, Ethics, Semantics and Logic, Philosophical Analysis, existential Philosophy, Political Philosophy, and the Philosophy of Religion. For details see the *Faculty of Graduate Studies, Dalhousie Calendar*.

Key to Class Numbers: Philosophy

New	Old	New	Old	New	Old
100	1	225	22	325	10
200	2	230	—	330	19
205	18	235	5+24	335	—
210	3	240	25	340	17
215	4	315	7+8	345	15
220	20	320	13	460/560	

PHYSICS

Professors.....E. W. Guptill (Head of Dept.), W. J. Archibald, I. K. MacKenzie
Associate Professor.....C. K. Hoyt
Associate Professors (Oceanography).....M. J. Keen, C. R. Mann
Assistant Professors M. G. Calkin, M. H. Jericho, D. Kiang, G. F. O. Langstroth, W. C. Lin., R. H. March, R. Ravindra, G. Stabilini
Lecturer.....C. G. White
MacGregor Teaching Fellows.....J. F. Boulter, A. G. D. Jost, R. K. Mohn, R. G. Strom

The following table shows the classes normally taken by an Honour student in Physics. All students who intend to take the Honour course are encouraged to discuss their programme with staff members of the department and to consult with the head of the department before registering:

Year	Arts	Science	Mathematics	Physics
I	English 100 Language 100	Chem. 100	Math. 100	Phys. 110
II		Elective	2 Math classes	Phys. 211, 231
III	Elective		Math class	Phys. 300, 330 & 335
IV	Elective			Phys. 400, 410, 415, 420

Students assisting in the undergraduate laboratories are required to be present for the two weeks preceding the beginning of classes.

Classes Offered

100. General Physics

C. G. White

Lect.: 3 hrs.; Lab. 3 hrs.

This is a survey class requiring no previous preparation in physics, and offered primarily for students in Arts, Pre-medicine, Pre-dentistry, and Pharmacy. It will not normally be accepted as a prerequisite to advanced classes in Physics unless exceptional circumstances arise. Topics will include mechanics, heat, light, sound and electricity. *Text*: K. R. Atkins, *Physics*.

110. Mechanics, Electricity and Magnetism

E. W. Guptill

Lect.: 3 hrs. (2 sections); Lab.: 3 hrs.

This is a prerequisite to all subsequent Physics classes. Previous knowledge of Physics is an asset, but is not essential. A class in calculus must be taken concurrently if the student has not previously studied calculus. *Text*: Shortley and Williams, *Elements of Physics*.

211. Mechanics.

W. J. Archibald

Lect.: 3 hrs.; Lab.: 3 hrs.

Prerequisite: Physics 110 and Mathematics 100. This is a class in Mechanics from the Berkeley Physics programme. *Text*: Berkeley, *Physics*, Volume 1.

220. Heat, Sound and Light

C. K. Hoyt

Lect.: 3 hrs.; Lab. 3 hrs.

Prerequisite: Physics 110, Mathematics 100.

An introduction to thermodynamics and various types of wave motion. *Text*: Shortley and Williams, *Elements of Physics*, 4th Edition.

231. Electricity.

W. J. Archibald

Lect.: 3 hrs.; Lab.: 3 hrs.

Prerequisite: Physics 110, 211 and Mathematics 100. This is a class in electricity from the Berkeley Physics programme. It may be taken concurrently with Physics 211. *Text*: Berkeley, *Physics* Volume 2.

300. Intermediate Physics Laboratory.

R. H. March

Lab.: 6 hrs.

Prerequisite: Physics 231 and two additional classes in Physics (which may be taken at the same time). *Students' attention is drawn to the fact that Physics 300 and 400 are laboratory classes which must be taken in conjunction with advanced undergraduate classes in Physics.*

325. Interpretation of Physics.

R. Ravindar

Lect.: 2 hrs.

Prerequisite: Two Physics classes. Such fundamental concepts of Physics as space-time, mass-energy, wave-particle, will be discussed in their historical and contemporary context. Assumptions and limitations of the scientific method will be examined in order to appreciate their contribution in the formation of the modern world-view.

330. Electromagnetic Theory.

M. G. Calkin

Lect.: 3 hrs.

Prerequisite: Engineering 230 or Physics 231. Maxwell's equations are derived from the experimental laws of electricity and magnetism. Boundary value problem in static and time-dependent fields are solved. Physical optics is developed from electromagnetic theory. *Texts*: Reitz and Milford, *Foundations of Electro-magnetic Theory*.

335. Electronics.

A. Levin

Lect.: 3 hrs.

Prerequisite: Engineering 230 or Physics 231, Mathematics 220 or 228 to be taken concurrently. Non-linear systems. Modulation and demodulation, rectification. Electromechanical analogues. Analogue computation. Servo systems, stability and control criteria. Solid state devices, characteristics, application and computations. Noise and information concepts. Elements of information theory. Filters and transmission lines. Radiation and propagation.

400. Advanced Physics Laboratory. A. Levin, J. Burgess

Lab.: 6 hrs.

Prerequisite: Physics 300.

410. Introduction to Mathematical Physics. G. Stabilini

Lect.: 3 hrs.

This class will include topics in special relativity such as: the Lorentz transformation; transformation of Maxwell's equations; relativistic composition of velocities; time dilation; equivalence of mass and energy etc., and in advanced mechanics such topics as: variational principles; Hamilton's principle; the Hamilton equation of motion; canonic transformations; Hamilton-Jacobi's equations etc. *Text*: H. Goldstein, *Classical Mechanics*.

415/515 Quantum Physics. C. K. Hoyt

Lect.: 2 hrs.

This class uses Leighton, *Principles of Modern Physics*, as a text but omits the section on relativity. Topics include quantum mechanics; atomic and molecular systems; quantum statistics and the band theory of solids.

420/520. Statistical Mechanics and Thermodynamics.
W. G. Lin and R. H. March

Lect. 3 hrs.

The ideas of statistical treatment of a large number of particles are developed into a treatment of thermodynamics. The topics covered include consideration of equilibrium, then proceed from the simple theory of monatomic gases to more complex systems described by Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics. The theories of particles are used to build up a treatment of real solids, including magnetism, crystal lattice vibration and transport theory. *Text*: Reif, *Statistical and Thermal Physics*.

422. Selected Topics in Modern Physics.
H. Jericho and D. Kiang

Lect.: 2 hrs.

This class attempts to acquaint students with the basic notions of solid state and nuclear physics. *Reference Books*: Kittell, *Introduction to Solid State Physics*, (3rd. edition), Enge, *Introduction to Nuclear Physics*.

435/535. Physical Electronics. G. F. O. Langstroth

Lect.: 3 hrs.

Prerequisite: Physics 231. The physics of electronic devices important in modern applications is considered. Vacuum tube and semi-conductor

concepts, amplification as an energy conversion process, electron optics and plasma physics are a typical selection of subjects.

440/540. Waves in Layered Media. R. Ravinda

Lect.: 3 hrs.

Prerequisite: Physics 231, 230 and Mathematics 100. Topics will include propagation of plane and spherical waves in homogeneous and inhomogeneous media, reflections from plane boundaries and transition layers, surface waves, and related subjects. *Text*: L. M. Brekhovskikh, *Waves in Layered Media*.

445/545.—Geophysics. M. J. Keen

Lect.: 2 hrs.

Prerequisite: Either Geology 405 or Physics 440. A seminar class concerned with topics of special importance in a study of the earth. These may include among others: earth tides, measurement of gravity at sea, satellites and the earth's gravity field, the thermal state of the earth, studies of the upper mantle by surface wave studies, Mid Ocean Ridges and continental drift, detectors in arrays, applications of time series analysis.

Graduate Studies

Courses leading to the advanced degrees of M.Sc. and Ph.D. are also offered by the Department of Physics. For details see *Faculty of Graduate Studies, Dalhousie Calendar*.

Key to class Numbers: Physics

New	Old	New	Old	New	Old
100	10	310	39	415/515	54
110	11	325	—	420/520	47
211	—	330	36	422	—
220	22	335	38	435/535	48
230	26	340/540	33	440/450	33
231	—	400	40	440/541	43
300	30	410	52	445/545	49

POLITICAL SCIENCE

Professors.....J. H. Aitchison (Head of Dept.)
 J. M. Beck, D. Braybrooke
Associate Professor.....K. A. Heard
Assistant ProfessorsD. W. Stairs, A. P. Pross
 R. G. Beehler

Students majoring in the General Course or taking a major or combined Honours programme should consult the Department about their programme. They are advised to concentrate in one of the three principal areas of the subject in accordance with the following scheme.

<i>Principal Area</i>	<i>Three or More Classes Selected From:</i>
Political Philosophy	240, 242, 244, 345, 346
Structure and functioning of the State	200, 202, 205, 210, 211, 217, 230, 235, 315, 316, 318
International Politics	217, 220, 223, 225, 322, 323

To avoid undue specialization, students should also take one or more classes outside the field of their concentration.

With the permission of the professor concerned, classes in Political Philosophy and International Politics may be taken by students who have not taken Political Science 100.

Recommended Programme for General B.A. with Major in Political Science

Year	Political Science	Other Classes
I	100	History 100 or Philosophy 100; English 100; a foreign language; a science or Mathematics. ¹
II	Two classes at the 200 level	Philosophy 100 or History 100; Economics 100 or Sociology 100; an elective
III	three classes at the 200 or 300 level	A class above the 200 level in History, Philosophy, Economics or Sociology elective

1. If required. If not required, another 100 class in Philosophy, History Economics or History. In this case another elective may be taken in a later year.

**Political Science
 Major Honour Programme**

Year	Political Science	Other Classes
I	100	Sociology 100 or Economics 100; History 100 or Philosophy 100; a class in science or Mathematics ¹ ; a foreign language.
II	Two classes at the 200 level	Sociology 100 or History 100; Economics 100 or Sociology 100 or a class beyond the 100 level in Philosophy, History, Economics or Sociology, English 100.
III	Three classes at the 200 or 300 level	A class in History, or Philosophy or Sociology or Economics; an elective
IV	Four classes at the 200 or 300 level	An elective

**Political Science and Philosophy
 Combined Honour Programme
 (with Six or Seven classes in Political Science)**

Year	Political Science	Philosophy	Other Classes
I	100	100	English 100; a foreign language; a class in science or Mathematics. ²
II III & IV	Two classes from 240, 242, 244, 246, 349 ³ ; two classes not in this group and two or three classes freely chosen	three classes from 200, 205, 210, 320 of which at least one is to be taken in each of Years II and III; one or two other classes	History 100; three electives

See the Philosophy Section for the combined programme with six or seven classes in Philosophy.

1. If required. If not required, another 100 class in Philosophy, History, Economics or Sociology which would otherwise be taken in a later year. In this case another elective may be taken in a later year.
2. If required. If not required, Economics 100 or Sociology 100.
3. Political Science 349, the Seminar in Philosophy, Political and Economics, is the same class as Philosophy 340. It may be counted either among the Philosophy classes making up the combined programme, or among the Political Science classes, but not both.

**Political Science and History
Combined Honour Programme**

Such a programme may be arranged on consultation with the departments.

**Political Science and Economics
Combined Honour Programme**
(with major concentration in Political Science)

Year	Political Science	Economics	Other Classes
I	100	100	A foreign language; History 100 or Philosophy 100; a class in science or Mathematics ¹
II	Two classes at the 200 or 300 levels	200 and 201	English 100
III & IV	Four classes at the 200 or 300 levels	Two classes at the 300 or 400 levels	One other class from either Political Science or Economics; Philosophy 100 or History 100; two electives.

See the Economics Section for the combined programme with concentration in Economics.

**Political Science and Sociology
Combined Honour Programme**
(with major concentration in Political Science)

Year	Political Science	Sociology	Other Classes
I	100	100	A foreign language; History 100 or Philosophy 100; a class in science or Mathematics*
II	Two classes at the 200 level	202 and one other class at the 200 level	English 100
III & IV	Four classes at the 200 or 300 levels	301 and 305 and one other class at the 300 or 400 level	Philosophy 100 or History 100; two electives

See the Sociology Section for the combined programme with concentration in Sociology.

1. If required. If not required, another 100 class in Philosophy, History, Economics or Sociology which would otherwise be taken in a later year. In this case another elective may be taken in a later year.

* If required. If not required another 100 class in Philosophy or History, Economics or Sociology which would otherwise be taken in a later year may be substituted, in which case another elective may be taken in a later year.

Classes Offered

100. Democratic Government and Politics (1967-68)

J. M. Beck

The first part of the class examines liberal democratic, fascist, and communist ideals. This is followed by a comparative study of the governmental institutions of Britain, Canada, and the United States under such headings as the evolution of positive government; constitutions and their amendment; and the working of the executive, legislative, and judicial branches; political parties; representation; pressure groups; public opinion; and fundamental civil liberties.

200. Great Britain and the Commonwealth (1967-68)

K. A. Heard

Lect.: 3 hrs.

This class includes: a study of the major factors and stages in the development of the modern Commonwealth with special reference to such questions as the changing role of the Crown, the doctrine of automatic belligerency, the right of secession and the admission of republics as members: a more advanced study of the theory and practice of the British Constitution with special reference to the problem of Cabinet responsibility; an examination of the transferability of the "Westminster model" and a study of the conduct of politics in other countries of the Commonwealth including those of Asia and Africa.

202. Canadian Government. (1967-68)

A. P. Pross

Lect.: 3 hrs.

A lecture class that will examine the structure and function of Canada's governmental and political institutions in the light of their place in the national power structure. Current policies, relationships and institutions will be discussed in terms of the historical and contemporary pressures that have combined to create them.

205. Theory and Practice of Government in the United States. (1967-68)

Instructor to be announced

Lect.: 2 or 3 hrs.

This class considers American Government not only for its own sake, as the government of a great power, but also as the most intensively studied illustration of democratic government. After tracing the political philosophy of the American Revolution and the United States Constitution through the modifications of constitutional development, the class measures that philosophy against the realities of contemporary American politics, where the rivalry of parties and interest groups and the increasing power of the Presidency vis-a-vis Congress seem to signify great departures from the original intentions of the Republic.

- 210. Comparative Government: The Study of the Governments of the Great Powers including U.S.S.R., France, and Germany (1967-68)** Instructor to be announced

Lect.: 2 or 3 hrs.

Lectures will deal first with some of the general difficulties involved in comparing political systems, and will then go on to discuss the more important political institutions and processes of the U.S.S.R., France and Germany. While the emphasis will be on contemporary conditions, some historical background will be necessary, and an attempt will be made to compare the "totalitarianism" of Nazi Germany with that of the Soviet Union. A text will be assigned but students will be expected to supplement it with outside reading.

- 211/511. Public Administration (1967-68)** A. P. Pross

This is an introductory class in problems of public administration. It will begin with a general discussion of the administrative environment, stressing the history of the public service in Canada, Britain and the United States and contrasting it with management in the private sector. The class will then deal in detail with principles and practices of administration: organization, management, administrative action and civil service responsibility. It will conclude with a discussion of current trends in the study of public administration. Students will be expected to have some knowledge of Canadian federal and provincial government studies.

- 217. The Government and Politics of Africa (1967-68)**

Lect.: 2 hrs. K. A. Heard

The contemporary significance of politics in Africa; problems of government and politics in a selected number of African states (to be taken from: Nigeria, Ghana, Kenya, Malawi, Zambia, Rhodesia, and the Republic of South Africa, and the Congo); African Socialism; Pan-Americanism, and regional and Pan-African organizations.

- 220/520. The Theory of International Politics. (1967-68)**

Lect.: 3 hrs. J. H. Aitchison

This class seeks to provide perspectives for viewing the world of international politics that will be as useful twenty years from now as they are today. Unless facts are firmly grasped in a theoretical and conceptual framework, they cannot be understood. The main emphasis is on theories, concepts, approaches, though these are related to the world of today.

One weekly hour out of three is set aside as "Topical Hour" for the discussion of current trends and events. Any student in the University may attend Topical Hour.

- 223. Techniques of Statecraft and Problems of Order in International Politics. (1967-68)** D. W. Stairs

Lectures will analyze the techniques available to decision-makers in the formulation and execution of foreign policy and will consider some of the moral, political, economic and other limitations upon their use. The difficulties of moderating inter-state conflict will be discussed with special reference to the problems of arms control, collective security, alliance systems, power balancing, and the like. There will be no single text, and students will be expected to read widely from a number of sources.

- 225/525. The Current International Milieu. (1968-69)**

Lect.: 3 hrs. J. H. Aitchison

Among the topics discussed in this class are: the general structure of power in the world today; the problems of deterrence, of limited war and flexible response; the loosening of both the Soviet and the Western blocs; the Sino-Soviet split; peaceful co-existence between communist and non-communist states; the German problems; integration of Europe; the influence of the Triple-A (Asian, African and Arab) states; international and regional organizations.

One weekly hour out of three is set aside as "Topical Hour" for the discussion of current trends and events. Any student in the University may attend Topical Hour.

- 230/530. Political Parties. (1967-68)** J. M. Beck

Lect.: 2 or 3 hrs.

The first part of this class examines the nature of political parties and the roles which they play in liberal, democratic and totalitarian governments. This examination is followed by a study of political parties in Britain, Soviet Russia, the United States, and Canada, with particular emphasis on their evolution, structure and role in the political process.

- 235/535. Public Opinion, Group Processes, and Policy Formation. (1967-68)** D. Braybrooke

Lect.: 2 hrs.

One branch of this subject, as studied in this class, concerns the leading findings of public opinion research to date and deals with various attempts to construct adequate theories about origins of opinions in group membership and the influence of group opinions in the political process. Another branch involves practical work, in which the class conducts its own surveys of public opinion on various issues. In this work members of the class participate in constructing questionnaires, choosing statistically adequate samples, and calculating the statistical results.

- 240/540. Political Philosophy from the Greeks to the end of Middle Ages. (1968-69)** J. H. Aitchison

Lect.: 2 or 3 hrs.

In the first half of this class the political works of Plato and Aristotle are examined; in the second half special attention is given to the Stoics, Roman Lawyers, Augustine, the Papalists, Dante, the Conciliarists, Aquinas, Occam, and Marsilius.

- 242/542. Political Philosophy of the Sixteenth, Seventeenth, and Eighteenth Centuries (1967-68)**

Lect.: 2 or 3 hrs.

J. H. Aitchison

In this course special attention is given to the political thought of Machiavelli, More, Calvin, les Politiques, Bodin, Hooker, the Puritans, Hobbes, Harrington, Locke, Montesquieu, Rousseau, Hume, and Burke.

- 244/544. Political Philosophy of the Nineteenth and Twentieth Centuries (1967-68)**

Lect.: 2 hrs.

R. G. Beehler

A study of the following major topics: Utilitarianism, from Bentham to Mill; Political Idealism, with special reference to Hegel, Green and Bosanquet; Theories of Socialism, including the precursors of Marx, Marxism, Leninism and Stalinism, Guild Socialism, Syndicalism, Fabianism; the theories of Fascism and National Socialism; modern theories of Liberalism.

- 300/500. The State and Economic Life (Not given in 1967-68)**

J. H. Aitchison

In this seminar class, the facts, causes and effects, both particular and general, of state activity in the modern age are examined. Particular emphasis will be placed on the development of state activity in the United States, Britain, Canada, Australia, New Zealand, South Africa, France and Sweden.

- 315/515. The Constitution and Government of Canada. (1968-69)**

J. M. Beck

Seminar: 2 hrs.

A seminar class in which papers on contemporary problems in Canadian government are prepared and discussed by members of the class. Among the topics to be considered are: the adequacy of the Fulton-Favreau formula for "repatriating" the B.N.A. Act; the retention of the federal power to disallow provincial legislation; the right of the Governor-General to refuse dissolution; the need for a Canadian ombudsman; the adequacy of the Diefenbaker bill of rights; and the approach adopted by the Supreme Court of Canada in its interpretation of the B.N.A. Act since 1949.

Mainly for graduate students; senior undergraduate students with the permission of the professor.

- 316/516. Politics in Nova Scotia since Confederation (1967-68) (same as History 473/573)** J. M. Beck

Seminar: 2 hrs.

A seminar conducted in conjunction with the Department of History. The topic to be discussed will deal with the evolution of Nova Scotian governmental and political institutions, and with the current state of Nova Scotian politics. Permission of the instructors will be required for this course.

Mainly for graduate students; senior undergraduates with the permission of the instructor.

- 318/518. The Politics of Southern Africa (1967-68)**

Seminar: 2 hrs.

K. A. Heard

This class will be primarily directed to the study of policies in the Republic of South Africa, with comparative references being made to the situation in Rhodesia and Mozambique respectively. It will include detailed studies of the following general topics: the socio-economic structure of South Africa, the changing pattern of race relations, the structure of government, political parties and political movements with special references to their responses to shifts in the situation, the international involvements in Southern Africa, with reference to Pan-African organizations, the Commonwealth, and the United Nations.

Mainly for graduate students; senior undergraduates with the permission of the instructor.

- 322/522. History of Canadian External Relations (1967-68) (same as History 422/522)**

D. W. Stairs

Seminar: 2 hrs.

A seminar class on the development of Canadian foreign and defence policy designed primarily for graduate students in history and political science. Participants will be expected to prepare research papers based for the most part upon documentary and other primary sources, and particular emphasis will be placed on the years since 1939.

Senior undergraduates with the permission of the instructor.

- 323/523. Seminar on International Politics (1967-68)**

Seminar: 2 hrs.

D. W. Stairs

The topics covered in this seminar will be broadly the same as those covered in Political Science 223.

Mainly for graduate students; senior undergraduates with the permission of the instructor. Undergraduate credit may be obtained for 223 or 323, but not for both.

345/545. Who are the Liberal Thinkers (1967-68)

Seminar: 2 hrs.

R. G. Beehier

The seminar will examine closely the writings of some social and political theorists whose theories of government have earned them the epithet 'liberal'. The aim will be, first to elucidate what have been some of the meanings liberals have given to 'liberty' and what are the conditions under which they say it may be achieved, and, secondly, to try to suggest what is acceptable in their theories of liberty, society, moral behaviour, political obligation, and social change. The connection claimed by Marxists and others between liberal theories of government and economic and other institutions will be discussed. The writings examined will include those of Locke, Hume, Montesquieu, Burke, Bentham, Mill, de Tocqueville and Rousseau.

Mainly for graduate students; senior undergraduates with the permission of the instructor.

346/546. Leading Concepts in Political Philosophy. (not given in 1967-68)

K. A. Heard

Seminar: 2 hrs.

An analysis of the meaning of leading concepts in political philosophy such as: authority, sovereignty, nationalism, self-government, freedom, consent, representation, responsibility, rights, the general will, the common good, public interest, equality. Reference will be made to the meanings assigned to these terms by the major political philosophers, but the approach will be analytical rather than historical.

Mainly for graduate students; senior undergraduates with the permission of the instructor.

349/549. Philosophy, Politics, and Economics. (1967-68)
(same as Philosophy 340 and Economics 407)

Seminar: 2 hrs.

D. Braybrooke

Various topics on which the subjects of philosophy, political science, and economic coverage will be investigated, among them: standards for evaluating governments such as natural rights, welfare, majority rule, and efficiency; the concept of rational action; the relationship between action explanations and behaviour explanations in social science; and the uses of social science in making decisions and choosing policies. Readings in such authors as Aristotle, Butler; Hicks; Little, Boulding; Marx, Webber; Herring, Downs, Arrow, Schelling; Popper, Dahl and Lindblom, and Simon.

Mainly for graduate students; senior undergraduates with the permission of the instructor.

Graduate Studies

The Department offers a graduate programme leading to the M.A. degree and expects to initiate a Ph.D. Programme in the near future. Details of the M.A. programme are given under *Faculty of Graduate Studies, Dalhousie Calendar*.

Key to Class Numbers: Political Science

New	Old	New	Old	New	Old
100	1	220/520	8	244/544	11
200	2	223	—	300/500	6
202	—	225/525	9	315/515	7
205	3	230/530	14	316/516	—
210	—	235/535	15	318/518	—
211/511	12	240/540	4	322/522	—
215/515	7	242/542	5	323/523	—
217	10			345/545	—
				346/546	16
				349/549	17

PSYCHOLOGY

Professors P. H. R. James (Head of Dept.), H. D. Beach

Associate Professors C. J. Brimer, W. K. Caird, J. W. Clark,
W. K. Honig, J. A. McNulty

Assistant Professors B. S. Clark, P. J. Dunham, B. Earhard,
M. Earhard, W. Kanungo, W. L. King,
B. R. Moore, M. G. Strobel, W. T. Woodard

Research Associates M. J. A. Howe, D. N. W. Doig, R. D. Rudolph

The programme in Experimental Psychology is designed to provide both B.A. and B.Sc. students with a sound knowledge of the scientific aspects of the subject. For this purpose, the Department maintains a well-equipped undergraduate laboratory, with facilities for experimental work with animals, children and adults. The more advanced classes in the programme will, in general, be conducted as seminars, and the prerequisites have been assigned in such a way as to ensure that the student will be able to obtain the maximum advantage from the material presented. It is realized, however, that such rules cannot fit every case, and the Department will be glad to make exceptions for those students who have shown unusual ability in other disciplines.

In general, students who intend either to take Honours or to major in Psychology should follow the programmes outlined below. These programmes have been planned to ensure that all the requirements for the degree will be fulfilled. For various reasons, it may not be possible to take all of the courses listed for a particular year. In such cases, the programme should be arranged to include these classes in other years. Those students entering the university with exemption from Year I English, Mathematics, or Science are advised to take Biology

101 or another class in Mathematics. All students who plan to take Honours or to major in Psychology should consult Dr. Dunham regarding their course of study.

A number of Junior Research Assistants will be available, during both the academic term and the summer vacation, to students who are taking an Honour degree in Psychology. Details of these assistantships, and of the stipends attached to them, may be obtained from Dr. P. Dunham.

Requirements for General Degree

Students enrolled in the General degree programme must take a minimum of six classes beyond the introductory level in both their major and minor areas. In addition to meeting the university requirements for the General B.A. or B.Sc., students wishing to major in Psychology must take at least the four classes beyond Psychology 100 that are listed below.

- YEAR I Psychology 100.
 YEAR II Psychology 200; Psychology 201.
 YEAR III Psychology 304, 305, or 306; Psychology 308, 309, or 312.

Requirements for Honour Degree

B.A. with Honours in Psychology Major Programme

- YEAR I Psychology 100; English 100; one foreign language; one class in Biology, Chemistry, Geology, Mathematics, or Physics; one class *either* in Classics, History, or Philosophy, or one class in Sociology, Economics, or Political Science.
 YEAR II Psychology 304; Psychology 305; Psychology 357; one class in Classics, History, or Philosophy in a subject not taken in Year I; one class in Sociology, Economics, or Political Science if this was not taken in Year I; if a class in Sociology, Economics, or Political Science was taken in Year I, one elective or minor may be chosen.
 YEAR III Psychology 307, two of Psychology 308, 309, 312, 356, and 358; if a class in Classics, History, or Philosophy was not taken in Year I, one class is to be chosen in a subject not taken in Year I; if classes in two of Classics, History, or Philosophy have already been taken, one elective or minor may be chosen.

- YEAR IV Psychology 465; Psychology 470; one of Psychology 308, 309, 312, 356, 358, 463, or 464 not already taken; two electives or minors.

B.Sc. with Honours in Psychology Major Programme

- YEAR I Psychology 100; Biology 101; one foreign language; English 100; Mathematics 100.
 YEAR II Psychology 304; Psychology 305; Psychology 357; one class in Biology beyond the 100 level; one class in Chemistry, Geology, Mathematics, or Physics.
 YEAR III Psychology 307; two of Psychology 308, 309, 312, 356, and 358; two electives or minors.
 YEAR IV Psychology 465; Psychology 470; one of Psychology 308, 309, 312, 356, 358, 463, or 464 not already taken; two electives or minors.

B.A. Psychology-Sociology Combined Honour Programme

- YEAR I Psychology 100; Sociology 100; one foreign language; English 100; one class in Biology, Chemistry, Geology, Mathematics, or Physics.
 YEAR II Psychology 304; Psychology 305; Sociology 202; Sociology 203 or 204; one class in Classics, History, or Philosophy; one elective.
 YEAR III Psychology 357; Psychology 308; Sociology 305; one class in Classics, History, or Philosophy in a subject not taken in Year II; one elective.
 YEAR IV Psychology 465; Psychology 470; Sociology 450; Sociology 307, 402, 407 or 452; one elective.

B.A. Psychology-Philosophy Combined Honour Programme

- YEAR I Psychology 100; Philosophy 100; one foreign language; English 100; one class in Biology, Geology, Mathematics, or Physics.
 YEAR II Psychology 304; Psychology 305; Philosophy 200; Philosophy 205, or 210 or 230; one class either in Classics or History, or one class in Sociology, Economics or Political Science.

YEAR III Psychology 357; one of Psychology 308, 309, 310, or 312; two of Philosophy 205, 210, 230, or 320, not already taken in Year II; one class in Classics or History if not taken in Year II, or one class in Sociology, Economics or Political Science if not taken in Year II.

Note: If Philosophy 320 is chosen, but must be deferred to Year IV, the student must take one of Philosophy 205, 210, 230, plus one other class in Philosophy.

YEAR IV Psychology 465; Psychology 470; one advanced Philosophy class; two electives.

B.Sc. Psychology-Biology Combined Honour Programme

YEAR I Psychology 100; Biology 101; Mathematics 100 or Chemistry 100; English 100; Language (French or German).

YEAR II Biology 201; Psychology 304; Biology 202 or Psychology 305; Mathematics 100 or Chemistry 100 (whichever not taken in Year I); one of Classics 100, History 100, or second language, or second class in language of Year I.

YEAR III Psychology 305 or Biology 201 (whichever not taken in Year II); Psychology 357; one of Biology 301, 302, 304, or 305; Psychology 307; second class in Chemistry or Mathematics.

YEAR IV Psychology 464; Psychology 465 or 470; Biology 480 or 490; elective (in the Humanities); one of Biology 324, 325, 326, or 421.

Note: If Psychology 465 is chosen, Biology 480 is to be taken. If Psychology 470 is taken, Biology 490 should be chosen.

Other Combined Honour programmes can be arranged. Interested students should consult the two Departments concerned regarding their course of study.

Classes Offered

100. Introduction to Psychology P. H. R. James

Lect.: 3 hrs.

An introduction to psychology as an experimental science. Psychology is the study of how the environment and the brain control behaviour. Experimental research in the subject is directed towards the measurement of the behavior of animals and men and the analysis of the ways in which controlled changes in their past and present environment affect this behavior. The introductory class will provide the student

with an understanding of what is now known about such things as instinctive behavior, the psychophysiology of perception and motivation, and the nature of learning and thinking in both animals and men, as well as a grasp of the methods which are now being used to analyse unsolved problems in these areas. In the latter part of the class, an account will be given of the ways in which this basic knowledge is applied to the study of problems in child, social and abnormal behavior.

200. Problems in Experimental Psychology.

W. T. Woodard, J. W. Clarke, P. Dunham,
Lect.: 2 hrs.; Lab.: 2 hrs. B. Moore, M. Howe, R. Rudolph

This class is meant to acquaint the student with three of the primary areas of modern psychology—learning, perception, and motivation. Emphasis in the class will be upon contemporary theoretical problems in these areas and upon the experimental techniques which have been used to solve such problems.

Prerequisite: Psychology 100 or Biology 101.

201. Applied Psychology.

W. J. Caird, B. S. Clark,
Lect.: 3 hrs. J. A. McNulty

The application of psychological principles and techniques to the solution of human problems is the concern of this class. There are many applied fields in modern psychology and three of the most important have been selected for discussion. In one part of the class, the modern techniques used for the modification and treatment of the behavior disorders will be examined and contrasted with some of the more traditional methods. Another part of the class will be concerned with the application of psychological principles to the education and training of children. The third part of the class will deal with how psychological principles are applied to the solution of many different kinds of industrial problems, from the design of machinery to the organization of efficient industrial systems.

Prerequisite: Psychology 100 or Biology 101.

304. Learning and Motivation.

C. J. Brimer
Lect.: 2 hrs.; Lab.: 2 hrs.

The class attempts to deal with some of the basic issues in the areas of learning and motivation.

Learning is a process and the two essential forms of the learning process which psychologists have identified are instrumental and classical conditioning. Working within this conditioning framework offers the substantial advantage of being able to employ lower mammals

to experimentally investigate the effect of different variables on the learning process. Some of the basic questions which are asked are the following: What is the effect of delay of reward, schedule of reward, magnitude of reward? Is learning a one step all-or-none process or is it gradual and incremental? How does one learn to avoid a noxious stimulus? How does one unlearn a habit once it has been learned? After learning specific response in a specific stimulus situation, what factors control the generation of the response to similar stimulus situations? How is fear conditioning different from reward conditioning? The studies which have attempted to answer these and similar questions are examined in detail.

In the area of motivation, one studies the impetus for learning. Here emphasis is upon the mechanisms responsible for initiating and maintaining behavior. Some of the physiological mechanisms controlling behavior are examined and the implications of this work for the understanding of hunger, thirst, fear, aggression, and sexual behavior is discussed.

Prerequisite: Psychology 100 (Honour students) Psychology 200 (general students).

305. Sensation and Perception.

J. A. McNulty

Lect.: 2 hrs.; Lab.: 3 hrs.

A study of the variables which determine what is seen and heard. The class stresses the methods which reveal these variables, measure their effects and show how they interact. Among the variables considered are sensory input, attention and past experience.

Prerequisite: Psychology 100 (honour students), Psychology 200 (general Students).

307. Comparative and Physiological Psychology.

Lect.: 2 hrs.; Lab.: 3 hrs.

308. Social Psychology.

K. Kanungo

Lect.: 2 hrs.; Lab.: 2 hrs.

A study of the individual in various social and cultural habitats. Topics include: group dynamics, game theory, attitude formation and change, and cognitive theory.

Prerequisite: Psychology 200 (general students), Psychology 304 or 305 (Honour students).

309. Developmental Psychology

Barbara Clark

Lect.: 2 hrs.; Lab.: 2 hrs.

A study of the acquisition, extension and maintenance of behaviour in the developing human organism. The class will compare various

theories of personality development and evaluate research methods employed in studying child behaviour.

Prerequisite: Psychology 200 (general students) Psychology 304 or 305 (Honour Students).

310. Theories of Personality. (Not offered in 1967-68)

312. Experimental Analysis of Behavior Disorders

Lect.: 2 hrs.; Lab.: 2 hrs.

W. K. Caird

A critical examination of some current views of abnormal behaviour, with an emphasis on the experimental approach to both understanding and modifying such behavior.

Prerequisite: Psychology 200 (general students), Psychology 304 or 305 (Honour students).

356. Advanced Motivation.

P. J. Dunham

Lect.: 2 hrs.; Lab.: 2 hrs.

A study of the factors controlling the arousal and direction of behavior and of the mechanisms of primary and secondary drives.

Prerequisite: Psychology 304 or 305. Restricted to honour and qualifying year students, although other students may be admitted with the consent of the instructor.

357. Statistical Methods in Psychology. Marcia Earhard

Lect.: 2 hrs.; Lab.: 1½ hrs.

The logic of statistical analysis with reference to the design and evaluation of experiments in Psychology. Both descriptive and inferential statistics will be covered with special emphasis on parametric and non-parametric tests of significance.

Prerequisite: Restricted to honour and qualifying year students, although others may be admitted with the consent of the instructor.

463. Cognitive Processes

W. L. King

Lect.: 2 hrs.; Lab.: 2 hrs.

The class will cover the phenomena included under the topic headings of problem solving, creativity, concept formation and rule learning, with an emphasis on their phylogenetic and ontogenetic development.

Prerequisite: Restricted to final year honour students and qualifying year students, although others may be admitted with the consent of the instructor.

464. Ethology.

R. G. B. Brown

Lect.: 2 hrs.

The class deals with the theory and practice of the study of animal behaviour under natural conditions.

Prerequisite: Restricted to final year Honour students and qualifying year students, although others may be admitted with the consent of the instructor.

465. Honour Thesis and Tutorial.

The Department

The student is assigned to a member of the staff with whom he discusses current experimental problems of common interest, and under whose direction he designs and performs an original experimental investigation.

Prerequisite: Restricted to final year Honour students.

470/570. Animal and Human Learning

B. Moore

Lect.: 2 hrs.

The class in Animal and Human Learning is a seminar class in which the most important theoretical and experimental problems in these areas will be discussed. The format of the seminar is informal and the active participation of all students is encouraged. General background reading is assigned weekly. In addition, each student is required to prepare and lead the discussion in some of the seminars, usually on topics of his choice.

Prerequisite: Restricted to final year Honour students and qualifying year students.

500. Research Assignment.

The Department

The student is assigned to an on-going research project and works under the direction of a staff member. The student is required to submit a report, written in thesis form, of the work completed during the year.

Prerequisite: Restricted to qualifying year students.

Graduate Studies

Courses leading to the M.A. and Ph.D. degrees in Psychology are offered. Further details on graduate courses and general requirements for admission to graduate study may be found in the Faculty of Graduate Studies section of the Dalhousie Calendar.

Key to Class Numbers: Psychology

New	Old	New	Old	New	Old
100	1	308	8	463	13
200	2	309	9	464	14
201	3	310	10	465	15
304	4	312	12	470/570	17
305	5	356	—	500	16
306	6	357	7		
307	—	461	11		

RELIGIOUS STUDIES**100. The English Bible**

J. B. Corston

Lect.: 2 hrs.

This class attempts to acquaint the student with the whole field of Biblical literature. The rise and development of the literature of the Old Testament is studied against its historical background. The New Testament writings are considered in relation to the life of the early Christian community, with particular reference to their chief literary characteristics and their historical and religious significance.

Reference texts: William Neil, *The Rediscovery of the Bible*; B. W. Anderson, *Understanding the Old Testament*; T. Henshaw, *New Testament Literature*.

A number of other classes relating to religious studies will be found among the offerings of several departments. Classes in the Philosophy, Psychology, and Sociology of Religion, for example, are offered by the departments of Philosophy and Sociology, while classes bearing on the historical development of religious thought are offered in the departments of History, Classics, and English.

Interested students may consult Professor Page, Department of Philosophy.

ROMANCE LANGUAGES

<i>Visiting Professor</i>	C. A. Hackett
<i>Professor</i>	Paul Chavy, (Head of Dept.)
<i>Associate Professors</i> ...	Harry F. Aikens, L. Clert-Rolland, Claude Treil
<i>Assistant Professors</i>	Lucienne Beschet, Edmund Boyd, Marcelle Cendres, Suzanne Chavy, Etienne Duval, M. T. Garcia-López, Guillermo Rey
<i>Lecturer</i>	Simone Deitz

The Language Laboratory is open more than 50 hours a week (including four evenings), and students have a wide choice of times at which they may complete their oral assignments.

FRENCH**Modern Languages****Combined Honour Programme**

French may be taken in a Modern Languages combined programme with German or Spanish the first language: see German or Spanish. With French the first language, the second modern language (ML2) may be German or Spanish.

- YEAR I** French 100 or 102; one class in ML2; English 100; one class in Social Sciences; one class in Science or Mathematics (if not passed in Senior Matriculation; otherwise one of Classics 100, History 100 or Philosophy 100).
- YEAR II** French 220; another intermediate French Class; one class in ML2; one class in Humanities and one class in Social Sciences not taken during first year.
- YEAR III** Two senior or Honour classes in French; two classes in ML2; one class in Humanities.
- YEAR IV** Two Honour classes in French; one advanced class in ML2; another Honour class in French OR another advanced class in ML2; one free Elective.

French and English**Combined Honour Programme**

- YEAR I** French 100 or 102; English 100; one class in Social Sciences; one of Classics 100, History 100, Philosophy 100; one class in Science or Mathematics (if not passed in Senior Matriculation; otherwise second subject from Classics 100, History 100, Philosophy 100).
- YEAR II** French 220; another intermediate French class; English 252; a second subject from Classics 100; History 100, Philosophy 100 (if not already taken; otherwise European or French or British History); a second subject in Social Sciences.
- YEAR III** French 321 and 322; English 251 or 352; English 353; one class in Humanities.
- YEAR IV** French 320 or 453; one of French 350, 451, 452; English 451 or 452; English 453 or 209; one free Elective.

French and Latin**Combined Honour Programme**

- YEAR I** French 100 (General Course) or 102 (Oral French 1); Latin 100; two of Classics 100, History 100, Philosophy

100; Science or Mathematics or (if not required) English 100 or a social science.

- YEAR II** French 220 (Survey of French Literature); French (any other intermediate class); Latin 200 (Latin Poetry); a class in the social sciences; English 100 (unless already taken) or the remaining class from Classics 100, History 100, or Philosophy 100.
- YEAR III** French (Senior class); Latin 300 (Roman Satire) or 301 (Virgil); French (Senior class) or Latin (Senior class); a second subject in a social science or the remaining class from Classics 100, History 100, or Philosophy 100; a History or Philosophy class offered by the Classics Department.
- YEAR IV** French (Honour class); Latin 300 or 301; French Honour class), or Latin (Honour class); a History or Philosophy class offered by the Classics Department; free elective.

FRENCH**Requirements for Honours
Major Programme**

Honour students majoring in French are expected to spend at least one summer and, if possible, two in a French-speaking country. Conditions of stay are to be agreed upon by the Department. Financial assistance may be granted to a limited extent.

- YEAR I** French 100 or 102; Latin 100; English 100; one class in Social Sciences; one class in Science or Mathematics (if not passed in Senior Matriculation; otherwise one of Classics 100, History 100, Philosophy 100).
- YEAR II** French 220; another intermediate French class in minor field; one class in humanities and one class in social sciences not taken during first year.
- YEAR III** French 320 or 322; French 350 or 352; one of French 300, 301, 310, 311, 321; one class in minor field; one class in Humanities.
- YEAR IV** French 450, 451, 452, 453; one free Elective.

**Classes Offered
Introductory Classes****001. Fundamentals of French (1st year)**

A non-credit evening class for beginners. Extensive use of audio-visual aids. *Voix et Images de France*.

002. Fundamentals of French (2nd year)

A non-credit class for further language practice. *Voix et Images de France*.

003. Introduction to University French

Prerequisite: Two years of high school French or French 001.
A non-credit class for students who have a certain knowledge of French, but have not reached the Senior Matriculation level. For students working under the old regulations, this class carries a credit equivalent to former French 1.

Basic Classes

Prerequisite: Senior Matriculation French, or French 003. Beginners must take French 001, then French 003 during the next summer or winter session, before being admitted to a credit class.

No more than one class may be taken at the basic level.

100. General Course in French

Lect.: 3 hrs.

Practice of language through written and oral exercises; study of French civilization; readings.

101. Scientific French

Lect.: 3 hrs.

For science students. This class aims at enabling them to understand and translate French scientific publications; to write in French simple factual reports; to read aloud intelligibly scientific papers written in French.

102. Oral French 1

Lect.: 3 hrs.; Lab.: 5-10 hrs.

Concentrated study of basic structures, spoken and written, with particular emphasis on oral aspects. Most suitable for students hoping to do advanced work later, but with little previous training in oral French. Completed by French 202. Those interested should read, fill in and return the special form supplied by the Registrar.

103. Programmed French

Lect.: 3 hrs.

The main objectives are the same as those of French 100, but a method of "programmed teaching" is applied, i.e. each student advances at his own speed, monitors his own work and is constantly an active participant in the learning process.

Intermediate Classes

Prerequisite: Any basic class. Students fluent in French may be admitted directly to an intermediate class with the consent of the Department. No more than two classes may be taken at the intermediate level.

200. "Explication de Textes" and Diction

Lect.: 3 hrs.

An introduction to literary French. Group discussions and expressive oral renditions of pages from well-known writers.

202. Oral French 2

Lect.: 3 hrs.; Lab.: 4-8 hrs.

Continuation and completion of work begun in French 102. Systematic building of vocabulary through study of French civilization.

210. Today's France

Lect.: 3 hrs.

Readings and discussions dealing with problems that confront contemporary France. Grammar review.

211. History of French Civilization

Lect.: 3 hrs.

A study of the great periods in the history of France, major events, living conditions, intellectual and artistic achievements. Grammar review.

220. Survey of French Literature

Lect.: 3 hrs.

A study of the greatest writers and the most significant masterpieces of French literature, from the Middle Ages to our time.

221. From Book to Stage

Lect. and practice exercises: 3 hrs.

Selected scenes from plays of all ages are first studied, then staged and performed by students.

Senior Classes

Prerequisite: Any intermediate class.

300. Advanced Composition

Lect.: 2 hrs.

Dictations, compositions, discussions leading students to a mastery of certain difficulties not discussed in more elementary classes.

Of special interest to students wishing to obtain, besides a Dalhousie credit, the "*Certificat Pratique de Langue Francaise*" granted by the Sorbonne.

301. Phonetics

Lect.: 2 hrs.

Systematic analysis of the sounds of language, with particular reference to French and English. Frequent exercises; term paper required.

310/510. History of French Art

Lect.: 2 hrs.

A survey of the accomplishments of French artists throughout the centuries.

311/511. History of French Canada

Lect.: 2 hrs.

From the first French settlements in North America to the present. Through this survey, many aspects of modern Canada will be better understood.

320/520. Contemporary French Literature

Lect.: 2 hrs.

A study of the most representative writers from the turn of the century to our time.

321/521. Survey of French-Canadian Literature

Lect.: 2 hrs.

From the period of the French rule to the present day.

322/522. Period Studies in French Literature (1967-68)

Lect.: 2 hrs.

The Age of Enlightenment.

Honour Classes

Primarily for Honour and Graduate students. However, other properly qualified students may be admitted with the consent of the instructor.

350/550. History of the French Language

Lect.: 2 hrs.

A linguistic study concerned with the historical transformation and local variations of the French language.

352. Oral French 3.**450/650. Medieval French Literature**

Lect.: 2 hrs.

Masterpieces of medieval literature are studied, partly in their original form, partly in modernized versions for more extensive reading.

451/651. Stylistics

Lect.: 2 hrs.

Analysis of the means by which users of the French language convey various shades of meaning and produce particular effects. Frequent exercises towards accuracy and elegance in self-expression.

452/652. Translation

Lect.: 2 hrs.

Seminar on the techniques of translation from French to English and from English to French. Frequent exercises; term paper required.

453/653. Advance Seminar

One or several seminars on particular subjects will be offered, depending on students' interests. Honour students are invited to submit suggestions early to the department. Summer reading may be prescribed.

Graduate Studies

Requirements for a Master of Arts degree in French are given in the Dalhousie Calendar under Graduate Studies.

Spanish

Assistant Professors Maria Teresa Garcia-Lopez, Guillermo Rey

Modern Languages**Combined Honour Programme**

Spanish may be taken in a Modern Languages combined programme with French or German the first language: see French or German. With Spanish the first language, the second modern language (ML2) may be French or German.

YEAR I

Spanish 101 or 102; one class in ML2; English 100; one class in social sciences; one class in science or Mathematics (if not passed in Senior Matriculation; otherwise one of Classics 100, History 100 or Philosophy 100).

- YEAR II Spanish 202 and 300; one class in ML2; one class in humanities and one class in social sciences not taken during first year.
- YEAR III Spanish 350 and 351; two classes in ML2; one class in humanities.
- YEAR IV Two Honour classes in Spanish (450 and 451); one advanced class in ML2; The Honour Seminar in Spanish (453) or another advanced class in ML2; one free elective.

Spanish and English Combined Honour Programme

Especially designed to suit the needs of English or Spanish speaking students looking forward to teaching the other language; it is arranged so that by choice of a seventh class in Year II, the emphasis is placed on either one of the Honour subjects.

- YEAR I Spanish 101 or 102; English 100; one class in social sciences; one of Classics 100, History 100, Philosophy 100; one class in science or Mathematics (if not passed in Senior Matriculation; otherwise a second subject from Classics 100, History 100, Philosophy 100).
- YEAR II Spanish 202; Spanish 300 or one of English 209 or 251; English 252; a second subject in social sciences; a second subject from Classics 100, History 100, Philosophy 100 (if not already taken; otherwise English-American or Hispano-American or English or Spanish History).
- YEAR III Spanish 301 and 351; English 451 or 452; English 201 or 206; one elective (or Spanish 300 if not taken in Year II).
- YEAR IV Spanish 451; Spanish 450 or 453; two of English 209, 251, 352, 353, 453, not taken previously; one elective.

Classes Offered

In every class in Spanish there will be an oral examination at the end of each term.

101. Complete First Class in Spanish.

Lect.: 3 hrs. One hour seminar on techniques of translation from Spanish into English and from English into Spanish. This class is intended for those who wish to know Spanish for commercial purposes or for the study of European or Hispano-American History. It is not the normal basic class for further work in the department. *Texts: A Compact Spanish Grammar* (Thrift Press) and to be announced.

102. Oral Spanish, Basic Class.

Lect.: 3 hrs. (2-3 sections).

Practice of Language through oral exercises; study of Spanish Grammar. *Texts: Audio-Lingual Materials Spanish Level One.*

202. Oral Spanish (2nd year)

Lect.: 3 hrs. (1-2 sections).

Prerequisite: Spanish 102 or a matriculation credit in Spanish. More advanced oral exercises; systematic building of vocabulary through study of Spanish civilization. *Text: ALM Spanish Level Two.*

300. Spanish Literature: the '98 Generation.

Lect.: 3 hrs.

Prerequisite: Spanish 202 (which may be taken concurrently by Honour students), Study of those Hispano-American and Spanish writers who were born about 1860. *Text: to be announced.*

302. Oral Spanish (3rd year)

Prerequisite: Spanish 202 or with the consent of the instructor. Continuation and completion of work begun in Spanish 102 and 202. Systematic building of vocabulary through the study of Spanish civilization. *Text: ALM Spanish Level Three.*

Honour Classes

350. The Golden Age of Spanish Literature: Drama.

Lect.: 3 hrs.

Prerequisite: Spanish 202, or preferably 300. Selected scenes from plays from *La Celstina* (1499) to *The Bonds of Interest* (1909). *Text: to be announced.*

351. Spanish America and Spanish History from 1492 to 1898. (not offered 1967-68)

Lect.: 3 hrs.

Prerequisite: Spanish 202, or preferably, Spanish 300. A survey of the Spanish discoveries, Conquistadores, "*Leyes de Indias*" and vicerealties in America.

450. The Golden Age of Spanish Literature: Drama (not offered 1967-68)

Lect.: 2 hrs. and 1 hr. seminar.

Prerequisite: A Spanish 300 class or Spanish as a mother tongue. Masterpieces of Spanish Drama. Representative works of Juan del Encina, F. Rojas, Lope de Vega, Tirso de Molina, Ruiz de Alarcon, Cervantes, Ruiz Zorrilla, Moreto, with special emphasis on the poetry of Lope de Vega. *Texts Del Rio: Antologia Espanola.*

451. Don Quixote: Cervantes and His Time.

Lect.: 2 hrs. and 1 hr seminar.

Prerequisite: A Spanish 300 class or Spanish as a mother tongue. Texts Cervantes: *Don Quixote* (any modern Spanish edition) and other recommended reading.

453. Advanced Seminar.

This seminar on contemporary Hispano-American Literature is designed for Honour students, and will be offered only as need arises.

Key to Class Numbers: Romance Languages

FRENCH					
New	Old	New	Old	New	Old
001/002	non-credit	211	31	321	46
003/004	1	220	34	322	41 (42-44)
100	2	221	33	350	—
101	3	300	35	352	—
102	10	301	51	450	40
200	—	310	—	451	50
202	30	311	—	452	52
210	32	320	45	453	47+48

SPANISH					
New	Old	New	Old	New	Old
101	A+	300	2	450	6
102	A+	302	—	451	3
202	1	350	4	453	—
—	—	351	5		

RUSSIAN

Assistant Professor.....Irene Coffin, Natan Nevo
Lecturer

The Language Laboratory is open more than 50 hours a week (including four evenings), and students have a wide choice of times at which they may complete their oral assignments.

Classes Offered

100. Elementary Russian. (3 sections)

Irene Coffin, Natan Nevo

Lect.: 3 hrs.

This class is intended for those beginning the study of the language.

200. Second-Year Russian

Natan Nevo

Lect.: 3 hrs.

Prerequisite: Russian 100 or Matriculation credit in Russian. Study of the language and grammar continued; reading of literary texts.

201. Scientific Russian.

Natan Nevo

Lect. 3 hrs.

Prerequisite: as for Russian 200.

Study of grammar reading of scientific texts. This class enables the students to translate scientific articles with the aid of a dictionary.

300. Area Studies

Irene Coffin

Lect.: 3 hrs.

Prerequisite: 200 or 201.

A study of geography and history of Russia.

301. Conversational and Literary Russian. (1967-68)

Irene Coffin

Lect.: 2 hrs.

302. Survey of Russian Literature to Gogol. (1967-68)

Natan Nevo

Lect.: 2 hrs.

303. Survey of Russian Literature. Gogol to Mayakousk (1968-69)

304. Survey of Russian Theatre. (1968-69)

Key to Class Numbers: Russian

New	Old	New	Old	New	Old
100	1A	201	1S	301	3
200	1	300	2	302	Survey

SOCIOLOGY AND ANTHROPOLOGY

Associate ProfessorsR. K. N. Crook, H. V. Gamberg
Assistant Professors.....J. G. Morgan, D. Stevenson

General B.A. Degree

Notes:

1. Sociology or Anthropology may be offered as fields for major or minor concentration.
2. Students majoring in Sociology may minor in Anthropology. Students majoring in Anthropology may minor in Sociology.
3. Students considering majoring in Sociology or Anthropology should consult the Departments in designing their programmes.

Sociology: Recommended Programmes for General B.A.

- YEAR I Sociology/Anthropology 100; Language 100; History 100; Mathematics 100 (or Science, to be decided in consultation with the Department); Psychology 100 or General Anthropology 102.
- YEAR II Sociology 202; 1 class in Sociology at the 200 level; Philosophy 100 (if not taken in Year I) OR Psychology 100, OR General Anthropology 102; English 100; Elective.
- YEAR III 3 classes in Sociology at the 300 or 400 level; 1 advanced class in a Social Science other than Sociology, OR Philosophy 200; Elective.

Anthropology:

- YEAR I Sociology/Anthropology 100; Language 100; History 100 Mathematics 100, OR Science; Philosophy 100 OR General Anthropology 102.
- YEAR II Anthropology 202; 1 class in Anthropology at the 200 level; General Anthropology 102 OR Philosophy 100; English 100; elective.
- YEAR III 3 classes in Anthropology at the 300 or 400 level; 1 advanced class in a Social Science other than Anthropology, OR Philosophy 200; Elective.

Honour B.A.**Notes:**

- Honours may be taken in Sociology or in Anthropology.
- Students honouring in Sociology may take Anthropology as the minor field. Students honouring in Anthropology may take Sociology as the minor field.
- Students considering taking Honours in Sociology or Anthropology should consult the Department in designing their programs.

Recommended Programs for Honour B.A.**Sociology:**

- YEAR I Sociology/Anthropology 100; Language 100; History; Mathematics 100 (or Science, to be decided in consultation with the Department); Philosophy 100, OR Psychology 100, OR General Anthropology 102.

- YEAR II Sociology 202; one class in Sociology at the 200 level; Philosophy 100 (if not taken in Year I) or Psychology 100, or General Anthropology 102; English 100; elective.
- YEAR III Sociology 301; Sociology 305; 1 class in advanced Sociology; 1 class at advanced level in Social Science other than Sociology, OR Philosophy 200; Elective.
- YEAR IV Sociology 450; 3 classes of years 3 or 4 Sociology; Elective.

Anthropology:

- YEAR I Sociology/Anthropology 100; Language 100; History 100; Mathematics 100 or a Science; General Anthropology 102 OR Philosophy 100.
- YEAR II Anthropology 202; one class in Anthropology at the 200 level; Philosophy 100 OR General Anthropology 102; English 100; elective.
- YEAR III Sociology 301; Anthropology 305; Anthropology 306; 1 class at advanced level in Social Science other than Anthropology, OR Philosophy 200; Elective.
- YEAR IV Anthropology 451; 3 classes in Anthropology at 300 or 400 level; Elective.

Combined Honour Programmes where Sociology is the Major Field

Students wishing to take Sociology as the minor field of a combined Honour programme should consult the options listed under the Department in which major concentration is intended.

**Sociology and Economics
Combined Honour Programme**

- YEAR I Sociology/Anthropology 100; Economics 100; Mathematics 100 (or a Science, to be decided in consultation with the Department); History 100; Language 100.
- YEAR II Sociology 202; 1 class in Sociology at the 200 level; Economics 200; Economics 202; English 100.
- YEAR III Sociology 301; Sociology 305; Economics 201; Economics 304; Philosophy 100.
- YEAR IV 2 classes at the 300 or 400 level in Sociology; 1 class in Economics at the 300 or 400 level; 2 Electives.

**Sociology and Political Science
Combined Honour Programme**

- YEAR I Sociology/Anthropology 100; Political Science 100; Mathematics 100 or a Science; History 100 OR Philosophy 100; Language 100.

- YEAR II Sociology 202; 1 class in Social Anthropology at the 200 level; 2 classes in Political Science at the 200 level; English 100.
- YEAR III Sociology 301; Sociology 305; 2 classes in Political Science at 200 or 300 level; Philosophy 100 OR History 100.
- YEAR IV 2 classes in Sociology at the 300 or 400 level; 1 advanced class in Political Science; 2 Electives.

Sociology and Psychology Combined Honour Programme

- YEAR I Sociology/Anthropology 100; Philosophy 100; Mathematics 100 or a Science; Philosophy 100 OR History 100; Language 100.
- YEAR II Sociology 202; Sociology 203 or 204; Psychology 200; Psychology 201; English 100.
- YEAR III Sociology 301; Sociology 305; Psychology 308; History 100 OR Philosophy 100; Elective.
- YEAR IV Sociology 450; one class in Sociology chosen from 307, 402, 407; Psychology 470; one elective.

Sociology and Philosophy Combined Honour Programme

- YEAR I Sociology/Anthropology 100; Philosophy 100; Mathematics 100 or a Science; History 100; Language 100.
- YEAR II Sociology 202; one class in Sociology at the 200 level; Philosophy 200; English 100; elective.
- YEAR III Sociology 301; Sociology 305; 2 classes in advanced Philosophy selected from 205, 210, 230, 320; Elective.
- YEAR IV 2 classes in Sociology at the 300 or 400 level; 2 classes of advanced Philosophy; Elective.

Classes Offered in Sociology

100. Sociology/Anthropology

Lect.: 3 hrs.

Introduction to Sociology and Social Anthropology. Required for all advanced courses at the 200, 300, or 400 level in Sociology or Anthropology.

202. Comparative Social Systems

Problems in comparative analysis of social structure; frameworks for classification and comparison will be examined and related to existing knowledge of different societies and social processes.

203. The Structure of Social Control

Lect.: 3 hrs.

The problems of order is discussed in sociological terms. Mechanisms of social control are considered in relation to deviance and conformity.

204. Social Stratification

Lect.: 3 hrs.

System of differential allocation of rank, power and prestige; the relations of empirical research to various stratification models including those developed by Marx, Weber, Davis and Moore, and Parsons are considered with special reference to industrial societies.

205. Canadian Society

Lect.: 3 hrs.

An examination of the institutional framework of Canadian society. Population and ethnic composition, native peoples, industrialization, and recruitment of elites will be among topics discussed.

301. Research Methods and Social Statistics

Lect. 3 hour Seminar.

An introduction to research design and the collection and analysis of data; elementary statistical techniques as applied to sociological research.

303. Social Change and Modernization

Lect.: 3 hrs.

Comparative analysis of social change with particular emphasis on the processes associated with industrialization. The structure of innovation and resistance to change. Common features and alternatives in modernizing societies.

304. Sociology of Religion

Lect.: 3 hrs.

The sociological analysis of beliefs and practices relating to the sacred in the context of comparative social structure. The organization of religious activities in modern societies.

305. Social Theory in Historical Perspective

Lect.: 3 hrs.

The relation of the scientific sociological theory to major trends in the history of social thought since the French Revolution.

307. Socialization

Lect.: 3 hrs.

Theory and research on social and personality and the relation of social structure of role acquisition and performance.

308. Sociology of Science and Ideas

Lect.: 3 hrs.

The institutional basis of idea systems with particular reference to the development of modern science. The organization of scientific research in contemporary society.

401. Analysis of Social Structure

3 hour Seminar.

An advanced introduction to comparative sociology for seniors or graduate students in other disciplines. Does not constitute an advanced course for majors or honours students in Sociology or Anthropology. Without prerequisites.

402. Research Seminar

3 hour Seminar.

Selected research problems in Sociology and Social Anthropology; student research projects will be undertaken.

403. Organization Theory and Bureaucracy

Lect.: 3 hrs.

Theoretical models for analysis of complex organizations. Application to numerous types of organization including economic.

405. Theoretical Sociology and Social Anthropology

3 hour Seminar.

Current issues in theory and methodology. Theory construction in relation to empirical research.

407. Small Groups

3 hour Seminar.

The small group as a focus for sociological analysis. Particular reference to research on experimental groups.

450. Honour Seminar in Sociology.

3 hour Seminar.

452. Readings in Sociology (Staff)

(Restricted to Honour Students). The student is assigned to a member of staff for regular meetings to discuss readings in a selected area. Papers and research projects will be expected.

A number of listed classes may not be offered in 1967-68. Students should consult the Department at the time of registration for possible changes.

Classes Offered in Anthropology**100. Sociology/Anthropology**

Lect.: 3 hrs.

Introduction to Sociology and Social Anthropology. Required for all advanced, i.e., 200, 300, and 400, classes in Sociology and Anthropology.

102. Introduction to General Anthropology

Lect.: 3 hrs.

A general survey of Anthropology including human origins and evolution, prehistory and archaeology, physical anthropology and linguistics. (Required for all students majoring or honouring in Anthropology, or Honour students in Sociology taking Anthropology as the minor field. Does not meet prerequisite for advanced classes in Sociology or Anthropology).

202. Comparative Social Systems (same as Sociology 202)**203. The Structure of Social Control (same as Sociology 203)****204. Social Stratification (same as Sociology 204)****205. Canadian Society (same as Sociology 205)****302. Kinship Systems**

Lect.: 3 hrs.

Analysis and classification of kinship and family systems. Regulation of marriage, kinship roles; behaviour and terminology.

303. Social Change and Industrialization (same as Sociology 303)**304. Sociology of Religion (same as Sociology 304)**

305. **Social Theory in Historical Perspective** (same as Sociology 305)
306. **Area Ethnography I**
Lect.: 3 hrs.
Systematic analysis of a ethnographic area.
307. **Socialization** (same as Sociology 307)
308. **Sociology of Science and Ideas** (same as Sociology 308)
402. **Research Seminar** (same as Sociology 402)
405. **Theoretical Sociology and Social Anthropology** (same as Sociology 405)
406. **Area Ethnography II**
Lect. 3 hour Seminar.
An advanced analysis of one or more ethnographic areas.
451. **Honour Seminar in Social Anthropology**
Lect. 3 hour Seminar.
453. **Readings in Anthropology (Staff)**
Restricted to Honour Students. The student is assigned to a member of the staff for regular meetings to discuss readings in a selected area. Papers and research projects will be expected.

A number of listed classes may not be offered in 1967-68. Students should consult the Department at the time of registration for possible changes

Graduate Studies

An M.A. programme in Sociology is offered. Details may be found in Dalhousie Calendar under the Faculty of Graduate Studies.

Key to Class Numbers: Sociology and Anthropology

New	Old	New	Old	New	Old
Sociology		305		Anthropology	
100	1+	307	5	100	—
202	—	308	—	102	1
203	—	401	—	202-205 = Sociol.	—
204	10	402	—	302	—
205	—	403	3+	303/305 = Sociol.	—
301	8+	405	—	306	3/4/6
303	2+	407	11	307/308 = Sociol.	—
304	7	450	9+	402/405 = Sociol.	—
		452	—	406	3/4/6

School of Divinity

ENTRANCE REQUIREMENTS

The regular Divinity course consists of the prescribed course for the B.A. or B.Sc. (3 years after Senior 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 who receive 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 and study extending over two years is recommended.

Greek is the normal language to be taken. Where areas of concentration are required, English, Philosophy and History are regarded as the most desirable. Religion must be carried as an extra subject in the first and second years.

DIVINITY COURSES

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' study, have passed all the required courses in the complete Divinity course (see below) together with no fewer than 3 Distinction courses (of which Hebrew 2 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, Pastoralia 2 and 3, 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 college with fewer 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 or their equivalent. 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 and substitute exegesis in English Bible 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 fifteen approved classes in Arts and Science, followed by the complete Divinity course, plus three distinction courses passed with a minimum of 65%. The fifteen 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 overall average of at least 65%, which must be maintained every year. Any student falling short of this average 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 18th.

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

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

(One hour a week for two years.) Open to all students of the College. Given every year. The Reverend Canon C. W. F. Stone.

To be taken in the first and second years 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, and they will not be required to write an examination. It does not count as an Arts credit, and there are no fees.

OLD TESTAMENT

(A) HEBREW

Hebrew 1—Three hours a week (1968-69). To be arranged. Prof. J. B. Hardie.

Grammar and translation: the first two chapters of Genesis.

Texts—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 ((1967-68). Prof. J. B. Hardie.

Selected prose extracts.

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

Hebrew 3—(Distinction). Two hours a week (1967-68). Prof. J. B. Hardie.

Selections from Psalms and Prophets.

(B) ENGLISH

English Bible 1—Old Testament. Two hours a week (1968-69). Rev. J. B. Hibbitts.

The history and literature of Israel from earliest times to 750 B.C., including its earliest religious, political and cultural development. Tests on the contents of the relevant English text of the Bible will be given throughout the year in this and the following English Bible courses.

Texts—The Bible—English Revised Version (OUP). N. Gottwald: *A Light to the Nations* (Harper). M. Noth: *The History of Israel* (Black). For reference R. H. Pfeiffer, *Introduction To The Old Testament*.

English Bible 2—Old Testament. Two hours a week. (1967-68) Rev. J. B. Hibbitts.

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—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* (Seabury). C. F. Whitley: *The Exilic Age* (Longmans). D. W. Thomas ed., *Documents from Old Testament Times* (Harper).

NEW TESTAMENT

(A) GREEK

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. Rev. D. T. Haviland.

Greek Bible 1—Two hours a week. (1967-68)

Synoptic Gospels, and Introduction to Textual Criticism. Rev. R. E. Reeve.

Text—A. H. McNeile: *An Introduction to the Study of the New Testament*, revised. C.S.C. Williams (O.U.P.). H. E. W. Turner: *Jesus, Master and Lord* (Mowbrays). A. Huck: *Synopsis of the First Three Gospels*, English ed. by F. L. Cross (Blackwells).

Greek Bible 2—One hour a week. St. John (1967-68). Rev. J. B. Hibbitts.

Texts—E. Nestle's or British and Foreign Bible Society's ed. of the Greek Testament, 2nd ed., 1958. C. K. Barrett: *The Gospel According to St. John* (SPCK). C. H. Dodd: *Historical Tradition In The Fourth Gospel* (CUP).

Greek Bible 3—One hour a week. Romans (1968-69). Rev. J. B. Hibbitts.

Texts—Nestle's or British and Foreign Bible Society ed. of the Greek New Testament 2nd ed., 1958. C. K. Barrett: *The Epistle to the Romans* (Black). H. Rhys: *The Epistle to the Romans* (MacMillan).

Greek Bible 4—One hour a week. (Distinction). 1 Peter, James (1967-68). Rev. J. B. Hibbitts.

Texts—To be assigned.

(B) ENGLISH

English Bible 3—New Testament. One hour a week. (1967-68). Rev. J. B. Hibbitts.

Introduction to New Testament times with a survey of the relevant intertestamental literature.

Texts—The Bible—English Revised Version (OUP). C. K. Barrett: *The New Testament Background: Selected Documents* (S.P.C.K.). F. M. Cross: *The Ancient Library of Qumran* (Duckworth). G. Vermes: *The Dead Sea Scrolls in English* (Penguin). Kee, Young, Froelich, *Understanding the New Testament*. 2nd ed. (Prentice-Hall). R. H. Pfeiffer: *A History of New Testament Times* (Harper).

English Bible 4—New Testament. Two hours a week (1968-69). Rev. J. B. Hibbitts.

The emergence, composition, text and canon of the New Testament, with special attention to the material not covered in the required Greek Testament courses.

Texts—The Bible—English Revised Version (OUP). Kee, Young, Froelich: *Understanding the New Testament*. 2nd ed. (Prentice-Hall). A. H. MacNeile: *An Introduction to the New Testament*, rev. ed. C.S.C. Williams (OUP).

CHURCH HISTORY

Church History 1—(Distinction). One hour a week. Rev. Canon C. W. F. Stone.

General Church History, 451-1500.

Church History 2—One hour a week (1967-68). Rev. J. B. Hibbitts.

English Church History from its beginning to the present day.

Texts—J. C. 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—One hour a week (1968-69). Rev. Canon C. W. F. Stone.

The modern Church. A general survey from and including the Reformation. Canadian Church History.

Church History 4—(Distinction). Rev. Canon C. W. F. Stone.

Continental Reformation and Counter-Reformation.

DOGMATIC THEOLOGY

Dogmatics 1—One hour a week (1967-68). Rev. R. E. Reeve.

The development of Christian Doctrine to 451 A.D.

Texts—J. Stevenson: *A New Eusebius* (S.P.C.K.). H. Bettenson: *Documents of the Christian Church*, 2nd ed. (OUP).

Dogmatics 2—Two hours a week (1968-69). Rev. R. E. Reeve.

The Doctrine of God; Theology, Christology, Pneumatology, and Trinitarianism. The Doctrines of Man, Sin and Grace. The Atonement.

Texts—E. J. Bicknell: *A Theological Introduction to the Thirty-nine Articles*, 3rd ed. rev. H. J. Carpenter (Longmans). O. C. Quick: *Doctrines of the Creed* (Nisbet). The Doctrine Report: *Doctrine in the Church of England* (S.P.C.K.).

Dogmatics 3—Two hours a week (1967-68). Rev. R. E. Reeve.

The Doctrines of the Church, the Ministry, the Sacraments, and Eschatology.

Texts—As for Dogmatics 2 plus the following: E. Brunner: *Our Faith* (S.C.M. edition). K. Barth: *Dogmatics in Outline* (S.C.M. edition). P. Tillich: *Dynamics of Faith* (Allen & Unwin).

Dogmatics 4—(Distinction). Rev. R. E. Reeve.

Courses of set reading, essays and seminars will be offered as required on specific aspects of Theology of particular interest to the individual student, including the New Thought and other current theological developments.

(Notice of desire to take the course should be given before the end of the preceding term.)

LITURGICAL THEOLOGY

Liturgics 1—(Distinction). One hour a week. Rev. Canon C. W. F. Stone.

Early Christian worship; Primitive Liturgies; Later developments and Mediaeval worship; Theology of worship.

Liturgics 2—Two hours a week (1968-69). Rev. Canon C. W. F. Stone.

The Liturgy in English; History and Analysis of the English Rites; the Tudor, Stuart, and present Books. Theology of worship.

Liturgics 3—(Distinction). One hour. Rev. Canon C. W. F. Stone. (See also Pastoralia 3: *The Prayer Book in the Parish*).

PHILOSOPHY OF RELIGION

(Faculty of Arts & Science)

Philosophy of Religion 1—Two hours a week (1968-69). (Philosophy 220). F. H. Page.

Prerequisite: Philosophy 100. An introduction to the philosophy of religion. The identification and clarification of religious concepts, and the uses of religious language, are first discussed. The theistic arguments and counter-arguments are examined and the epistemological status of divine revelation, religious experience, and religious faith investigated. Other topics include the problem of evil, immortality, the relation of science to religion, and the religious alternatives to theism.

Texts—Alston, *Religious Belief and Philosophical Thought*; Pike (ed.) *God and Evil*; Hick, *The Philosophy of Religion*.

Philosophy of Religion 2—(To be arranged).

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

Texts—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). Langmead, Casserley: "The Retreat from Christianity". Geo. Galloway: "The Philosophy of Religion".

Philosophy of Religion 3—(Philosophy 225) (1967-68). Two hours a week. F. H. Page.

Prerequisite: Philosophy 100 or Psychology 100. An introduction to the contemporary psychology of religion. The class begins with an examination of psychological accounts of religion, particularly in the Freudian. The psychology of the moral conscience and the development of religious forms of behaviour through the life-history of the individual are discussed. Conversion, prayer, ritual, worship and mystical experiences are considered in the light of current theories of learning, motivation and personality.

Texts—Clark, *The Psychology of Religion*; Freud, *The Future of an Illusion*; Philp, *Freud and Religious Belief*; Allport, *The Individual and his Religion*; Argyle, *Religious Behaviour*; Thouless, *An Introduction to the Psychology of Religion*; James, *The Varieties of Religious Experience*.

Philosophy of Religion 4—(Distinction). Two hours a week. (Philosophy 240). History of Mediaeval Philosophy. R. D. Crouse.

Prerequisite: Philosophy 100. A study of the development of philosophy from the fifth century to the fifteenth, with special attention to Anselm, Thomas Aquinas, and William Occam.

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.

The courses offered are arranged so as to enable every Divinity Student to complete the courses 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—Speech Training: the reading of the services and lessons. Mrs. S. A. Kryszek.

At the discretion of the Faculty of Divinity, any Divinity or Pre-Divinity student may be required to take this course one or more times.

Pastoralia 2—One hour a week (1968-69). Rev. R. E. Reeve.
Church Music.

Pastoralia 3—One hour a week (1967-68). Rev. R. J. R. Stokoe.
C. W. F. Stone.

Conduct of the Services of the Church and use of the Prayer Book in the Parish.

Pastoralia 4—One hour a week (1967-68). Rev. R. J. R. Stokoe.
Introduction to Pastoral Relationships.

Pastoralia 5—One hour a week (1967-68). Rev. R. J. R. Stokoe,
Judge J. E. Hudson and others.

Parish Administration; a consideration of the resources available; the Polity of the Church; Canon Law.

Pastoralia 6—One hour a week. Rev. R. E. Reeve, Rev. G. W. Philpotts, Rev. Canon C. W. F. Stone.

Composition of Sermons; the Theory and Practice of Preaching.

(This course must be taken twice: once during first year in Divinity and again during last year).

Pastoralia 7—90 minutes a week (1967-68). Rev. R. E. Reeve

(a) Introduction to General and Christian Ethics.

Texts—W. Lillie: *Studies in New Testament Ethics* (Oliver & Boyd). D. Bonhoeffer: *Ethics* (1955).

(b) Introduction to Moral Theology.

The course is designed to give an introduction to both General and Christian Ethics, and their practical application in the concrete pastoral situation.

Texts—Joseph Fletcher: *Situation Ethics*, (Westminster Press). D. Bonhoeffer: *Ethics*, (S.C.M. Press). W. Lillie: *Studies in New Testament Ethics*, (Oliver & Boyd).

Pastoralia 8—90 minutes a week. (1967-68). The Rev. R. J. R. Stokoe.

Relevant insights of Depth Psychology.

Pastoralia 9—One afternoon a week (1968-69).

Pastoral Counselling.

"With the approval of the Professor of Pastoralia, any student may attend a summer course of not less than six weeks duration in Clinical Pastoral Education instead of taking the course Pastoralia 9. Attendance at both however will remain a part of the necessary requirements for a distinction in Pastoralia".

Pastoralia 10—Rev. R. J. R. Stokoe.

Tutorials and seminars for the discussion of field work and problems arising therefrom. All Divinity Students do field work as participants in the Nova Scotia Diocese's Parish Training Scheme.

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

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.

Associate In Theology

By agreement among all Anglican Theological Colleges in Canada, the Title of Associate in Theology 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 Diocese (Nova Scotia and Fredericton) 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.

The Maritime School of Social Work

- L. T. Hancock, M.A. (Acadia), B.S.W. (McGill), A.M. (School of Social Service Admin., University of Chicago)
- Carol Ann Probert, B.A. (Mount St. Vincent), M.S.W. (Maritime School of Social Work and Saint Mary's); Registrar.

The Maritime School of Social Work is affiliated with the University of King's College. The School provides a two-year graduate program leading to the Master's Degree in Social Work. It was started in 1941 by a group of visionaries led by the late Dr. S. H. Prince, for many years a Professor of Sociology at King's. Seeing the rapid growth of Social Service Agencies throughout the Atlantic Region, this group recognized the need for a Centre where individuals could receive the education necessary for a career in the profession of social work.

The School began in a very modest way with four students and a faculty of volunteers. Today, it owns a large property in Halifax on Coburg Road at Oxford Street where a well-qualified faculty provides modern professional education to over forty students.

In early days the School had no permanent home and classes were held wherever suitable space could be found. In 1952 a home was made for the School at the University of King's College, and for five years it was housed in the Administration Building of the University. In 1957 the School purchased the property it now occupies.

Designed to serve the Atlantic Region, the School has placed emphasis on individual attention and highly qualified instructors. In 1950 Mount Allison University, St. Francis Xavier University, and Acadia University recognized the School and through an affiliation agreement awarded Master of Social Work Degrees to its graduates. In 1952 the University of King's College and St. Mary's University joined in the affiliation. Thus, a graduate of the School now receives his Master's Degree in Social Work from one of these five Universities.

Students interested in learning more about the program are referred to the current Calendar. The program, like that of other Canadian Schools of Social Work, is both practical and theoretical. The classroom courses are divided into three different groups, those concerned with the social work methods, those concerned with the social services, and those concerned with understanding human behaviour and social environment. In addition, students are required to participate in a Research program and write a thesis before they can qualify for graduation. The practical part of the program takes students into nearby agencies for two and one half days a week where they practice social work under the direction of a specially qualified Field Instructor.

The demand for professional social workers at home and abroad is enormous, and opportunities are varied and challenging. Persons planning a career in the social Welfare field should first obtain a baccalaureate degree, with special emphasis on the Social Sciences, before applying to the Maritime School of Social Work for admission. Courses in Sociology, Psychology and Political Science are particularly important. In addition, personal qualifications such as patience, understanding, tact, good judgment, emotional stability, and tolerance of religious backgrounds and beliefs that are different from one's own, are essential.

The University of King's College is proud of its long and close association with the Maritime School of Social Work. The University is pleased to offer residence and dining room facilities to students of the School. Students of the University interested in learning more about careers in Social Work are advised to seek an interview with the Registrar of the School by phoning Halifax 423-8162.

SPEECH ARTS

Lecturer:

Stella Kryszek, L.G.S.M., Gold Medalist, L.A.M.D.A., S.R.N.

Voice Production, Drama. Prose. Poetry. Choral Verse Speaking. Public Speaking. Parliamentary Procedure. Speech Therapy. Correction of Speech Defects.

There are two terms of four months each. Sixteen lessons are given each term. First Term begins September, 1967; Second Term begins January, 1968.

TUITION FEES

Private lessons (one hour lesson) \$80.00 per term

SYLLABUS

BREATHING:

Relaxation — development of intercostal diaphragmatic controlled breathing.

VOICE:

Development of good vocal quality. Projection of the voice. Elimination of nasal, throaty, guttural or their tone, and voice strain.

Articulation, Enunciation and Pronunciation.

VOCAL EXPRESSIVENESS:

Training in correct use of phrasing, emphasis, pause and modulation.

LANGUAGE:

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

RHETORIC:

The construction and presentation of an address.

MICROPHONE TECHNIQUE

Atlantic Summer School of Advanced Business Administration

June 11th — July 15, 1967

The Maritime Universities have for several years jointly sponsored a Summer School in Advanced Business Administration whose home is at the University of King's College. In 1967 the School will be held from June 11th to July 15th.

The purpose of the School is to provide further training at an advanced level for those who are already engaged in work in the business world. Instruction is offered, under the tutelage of a staff drawn from the Harvard School of Business Administration, in Human Relations, Business Policy, Financial Analysis and Control, Labour Problems, Marketing Problems, and Government Policy and The Canadian Economy.

Admission to the School is by recommendation from the firm which employs the student and participation is invited from all sizes and types of companies. There are no formal educational requirements, but it is expected that sponsors will recommend only those who, by virtue of experience, intelligence, industry, and interest in their jobs, will profit from the instruction offered.

Members of the School will live in single rooms in Alexandra Hall and eat in Prince Memorial Hall. The cost of tuition, books, board and room amounts to \$1,000.00 for the five weeks. Further details will be sent to applicants shortly before the opening of term in June.

Additional information as to the details of syllabus, etc., and application forms for admission are available from Dean H. E. Dysart, Director, Atlantic Summer School of Advanced Business Administration, University of King's College, Halifax. Applications should be completed by June 1st.

Institute of Pastoral Training

University of King's College

Pine Hill Divinity Hall

Divinity School of Acadia University

Presbyterian College, Montreal

Medical Faculty of Dalhousie University

The organization of this Institute in collaboration with Pine Hill Divinity Hall, the Divinity School of Acadia University, Presbyterian College, Montreal, Medical Faculty of Dalhousie 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 centers, and other social agencies. In this connection, the Institute now sponsors six-week courses in Clinical Pastoral Education, usually commencing mid May, at the Nova Scotia Hospital, Dartmouth (mental), and the Nova Scotia Sanatorium, Kentville.

While the above mentioned courses aid primarily at increasing the pastoral competence of the parish minister or church worker, students of particular aptitude and interest can be guided in further theological training to become qualified teachers of these subjects in theological courses, directors of Clinical Training Courses, and institutional chaplains; also, in certain cases, to become experts in particular specified 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 center at the Institute office.

A number of one-day and four-day workshops have already been held in various localities in the Maritimes, and information as to what is involved in setting one of these up may be obtained from the Secretary of the Institute.

All enquiries concerning courses offered should be addressed direct to the Secretary of the Institute, the Reverend Professor C. J. Taylor, Acadia University, Wolfville, N. S.. Board and lodging can usually be arranged, and some bursary assistance is forthcoming. Academic credit is given by certain Canadian and American universities for satisfactory completion of either of the courses offered. Applications to attend the courses from bona fide enquirers belonging to other professions are welcomed, and receive equal consideration.

A recent development in this field was the formal constitution in December 1965 of "The Canadian Council for Supervised Pastoral Education", which will seek to co-ordinate training across Canada, establishing and maintaining high standards, accrediting training courses, and certifying supervisors. The Institute of Pastoral Training has links with the Council one of which is the Institute's Secretary who is Vice-president of the Council and a member of its Board of Directors and its Committee on Accreditation and Certification. Professor R. J. R. Stokoe of King's, who has directed the six-week course at the Nova Scotia Hospital, Dartmouth, is also on the Council's Board of Directors, and has been accredited as a Chaplain Supervisor.

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.

Application should be made to the Registrar before May 15.

In order to retain scholarships tenable for more than one year, an average of 65% must be made each year, with no failing mark in any subject.

Any scholarship winner who can afford to do so is invited to give up all or part of the money awarded. He will still be styled the winner of the Scholarship during its tenure. This agreement increases the value of the Scholarships Funds, as it enables other students of scholarly attainments to attend the University.

ARTS AND SCIENCE

A. ENTRANCE SCHOLARSHIPS

Chancellor's Scholarships—\$400 a year

Established originally through the generosity of the Hon. Ray Lawson, O.B.E., LL.D., D.C.L., former Chancellor of the University, and continued by succeeding Chancellors, these scholarships are open to students of the Atlantic Provinces, and are tenable for four years from Grade XII. The holders of Chancellors' Scholarships must live in residence.

King's Foundation Scholarships—\$250 a year

Established by the Board of Governors, these scholarships are tenable for four years from Grade XII.

Halifax-Dartmouth Scholarship—\$150 a year.

Established for students entering the University from the Halifax-Dartmouth area, these scholarships are tenable for four years from Grade XII.

Alumni Living Endowment Scholarships—\$600

Established by the Alumni Association, these scholarships are intended for entering students, but consideration will be given to applications from students who are already members

of the College and who are in good academic standing. The holders of Living Endowment Scholarships must live in residence.

Margaret and Wallace Towers Bursary—\$600 a Year.

Established by Dr. Donald R. Towers, of the Cheshire Academy, Connecticut, an alumnus of King's, in memory of his mother and father, this bursary, tenable for four years from Grade XII is open to a student of high academic standing entering the University of King's College, Halifax, Nova Scotia, to study Arts or Science, who is a resident, or a descendant of residents of Charlotte County, New Brunswick, or of Washington County, Maine. Failing any qualified applicants from these countries in any one year, the bursary for that year only will become available to a student resident anywhere outside the Maritime Provinces of Canada.

The Prince Scholarship—\$1000

Made available 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 is open to any student of African extraction, a native of Nova Scotia.

Winfield Memorial Entrance Scholarship—\$200

Established by Mrs. W. A. Winfield in memory of her husband.

The Alumni Scholarship—\$200

Offered by the Alumni Association to a student of King's College School, Rothesay Collegiate, Edgehill, Netherwood or Halifax Ladies College. The winner of this scholarship must not hold any other scholarships.

Keating Trust Scholarships—\$125

Awarded from a bequest to the College from the Rev. J. Lloyd Keating, to students entering College 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.

Nova Scotia Light & Power Co. Ltd. Scholarship—\$300.00

The Nova Scotia Light & Power Co. Ltd. offers an entrance scholarship of \$300.00 a year, tenable for three or four years, providing the student maintains an average of 65% and has no failure in any subject.

The Halifax Rifles Centenary Scholarship—\$200

Established by the Halifax Rifles as an entrance scholarship. For particulars apply to the Registrar.

King's College Naval Bursary—\$300 a year

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.

Applicants must be children of officers and men either serving in the Royal Canadian Navy or retired from the R.C.N. on pension. 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.

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.

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 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 a student resident in the United States who in the judgement of the Directors of the Corporation best exemplifies an appreciation of the importance of good relationships between the people of the United States and Canada.

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 award is tenable for four years from Grade XII. For particulars apply to the Registrar.

Redpath Sugar Scholarship—\$1000 for two years

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, by W. J. McGregor, President of the Redpath Sugar Refinery, in memory of men lost at Springhill. For particulars apply to the Registrar.

The Imperial Order Daughters of the Empire Bursary—\$400 a Year

As 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, to the sons and daughters of deceased or permanently disabled men and women of the service (Army, Navy, Air Force.) For particulars apply to the Registrar.

I.O.D.E. Bursaries—\$100 to \$200

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. For particulars apply to the Registrar.

**B. SCHOLARSHIPS, BURSARIES AND PRIZES
AWARDED IN COURSE****The President's Scholarship—\$250**

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, this scholarship will be awarded to a student in the Second Year, who makes the highest aggregate in the Christmas examinations.

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 final 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.

April Fund Scholarship—\$600

A scholarship of \$600.00 has been established by the Trustees of the April Fund to be awarded to a student of outstanding academic distinction entering his or her graduating year. Any student may apply for this scholarship whether or not he has previously studied at the University of King's College.

The scholarship holder will be required to live in residence.

Applications must reach the Registrar not later than May 15th and must be accompanied by a transcript of marks obtained in the applicant's Junior year, and the names

of two professors to whom the applicant is known, and to whom reference can be made.

Saint John University Women's Club Scholarship—\$100 (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 a student from the City or County of Saint John, with consideration being given to both academic attainment and financial need. For particulars apply to the Registrar, before March 1.

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.

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 ten classes. In case of a tie preference will be given to a Divinity student.

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 with ten classes.

The Akins Historical 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 Beatrice E. Fry Memorial—\$50

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%.

The Henry 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 15.

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 who makes the highest mark in either Latin 1 or Latin 2, provided the mark is not less than 65%.

The McCawley Classical Prize—\$35

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

Open to students who have completed their first year.

The Zaidee Horsfall Prize in Mathematics—\$10

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

Khaki Bursary—\$60

Awarded to the sons and daughters of the soldiers of the Great Wars. Written application must be made to the Registrar 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.

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 Harry Crawford Memorial Prize—\$40

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 Canadian Motor Cycle Corps.

The prize is awarded 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.

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.

C. GRADUATE SCHOLARSHIPS, MEDALS AND PRIZES

The Governor General's Medal

Awarded to the candidate who obtains the highest standing in the examination for 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

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 at Encaenia.

The Rhodes Scholarship

This scholarship is of the annual value of 750 pounds sterling. Before applying to the Secretary (Dr. C. B. Ferguson, 6 Jennings St., Halifax) of the Committee of selection for the Province (which application must be made by November 1), consult the Registrar, King's College.

Rhodes Scholars who have attended the University of King's College

1909	Medley Kingdom Parlee, B.A., '08
1910	Robert Holland Tait, B.C.L., '14
1913	Arthur Leigh Collett, B.A., '13
1916	The Rev. Douglas Morgan Wiswell, B.A., '14 M.A., '16
1916	The Rev. Cuthbert Aikman Simpson, B.A., '15 M.A., '16
1919	William Gordon Ernst, B.A., '17
1924	The Rev. Gerald White, B.A., '23, M.A., '24
1925	M. Teed, B.A. '25
1936	Allan Charles Findlay, B.A., '34
1938	John Roderick Ennes Smith, B.Sc., '38
1946	Nordau Roslyn Goodman, B.Sc., '40, M.Sc., '46
1949	Peter Hanington, B.A., '48
1950	Ian Henderson, B.Sc., '49
1950	Eric David Morgan, B.Sc., '50
1955	Leslie William Caines, B.A., '55
1962	Roland Arnold Grenville Lines, B.Sc., '61
1963	Peter Hardress Lavallin Puxley, B.A., '63

University Women's Club Scholarship—\$500

The University Women's Club of Halifax offers a scholarship of the value of \$500 every second year, 1964, 1966, etc., 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. For particulars apply to the Registrar.

The Canadian Federation of University Women Fellowships—\$1500 to \$2500

For information apply to the Registrar.

The Imperial Order Daughters of the Empire Post-Graduate Overseas Scholarship—\$2000

For information apply to the Registrar.

Imperial Oil Graduate Research Fellowships \$2500 for three years

For information apply to the Registrar.

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 Metcalf Street, Ottawa.

Rotary Foundation Fellowship

Open to graduate students for advanced study abroad. Available every second academic year, 1963, 1965, etc. Applications must be considered before August 1st of previous year. Information may be obtained from Rotary Clubs or the Registrar.

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, 1967, who stands highest in a special examination to be held on September 19, 1967, 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 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.

The Bishop Waterman Bursary (Parish of Clements)—\$150

A bursary of \$150 has been established by the Parish of Clements to honour the Right Reverend R. H. Waterman, D.D. In making the award first consideration will be given to the residents of that parish.

The Mabel Rudolph Messias Divinity Bursary—\$120

The interest on an endowment of \$2,000.00, the gift of Mrs. M. R. Messias of Wolfville, Nova Scotia, is to be used to provide an annual Bursary for a needy and deserving Divinity student studying at the University of King's College, on the nomination of the Dean and the Faculty of Divinity.

Order of The Eastern Star—\$275

Four scholarships are to be awarded, primarily on the basis of financial need, to 2nd or 3rd year Arts students, or to older men with their Arts degree, in their 2nd or 3rd year of Theology.

John Clark Wilson Memorial Bursaries—\$100 each

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

Organ Fellowship—\$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, Charlottetown, 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 1969).

**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 Reverend 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 \$1,000 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 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, C.B.E., D.C.L. Awarded annually for Pastoral Theology. The winner must receive a recommendation from the Professor of Pastoralia.

Laurie Memorial Scholarship

One or more scholarships of about \$250 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.C.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 of 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. (Next award 1967-68).

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 Archbishop 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 Dean of Divinity.

The King's Divinity Scholarship—\$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.

Archbishop Kingston Memorial—\$100

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

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: Epistle to the 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, August 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. Next award 1967-68.

Fenwick Vroom Exhibition—\$40

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

The Church Boy's 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 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 of 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, Chapter V-VII provided always that the standard be sufficiently high.

Bibliography:

- T. W. Manson: *The Sayings of Jesus*, (SCM)
 J. Jeremias, *The Sermon of the Mount*, (Athlone Press)
 F. W. Beare: *The Earliest Records of Jesus*, (Blackwell)
 pp. 52-69 and 95-98.
 H. K. MacArthur: *Understanding the Sermon on the Mount* (Epworth).

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 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 direction 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 Ott Preaching Prize—\$25

Established by Dr. T. Gordon Ott. Awarded annually to a student of Divinity for the best extempore sermon of an expository nature.

William A. and Kathleen Hubley Memorial Bursary—\$175

This bursary is designed to assist students from St. Mark's Parish, Halifax, and failing a suitable candidate then from any parish in the Diocese of Nova Scotia, who are studying for the Sacred Ministry at any recognized College in the Anglican Communion, preference being given to students studying at the University of King's College. The award is made on the basis of need and may be renewed provided a certain acceptable standard is attained. The recommendations of the Rector of St. Mark's and the Dean and Divinity Faculty are necessary conditions. The bursary must be applied for annually.

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 was established by the late 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.

LECTURESHIPS

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.

Student Organizations

CO-ED CLUB

This organization was founded in October, 1913. It is open to all women graduates and undergraduates of King's College. The primary object is to act as a connecting link between former and present King's co-eds, and to assist Alexandra Hall in any way possible. It is this club that sponsors the annual formal co-ed dinner during convocation week.

THE UNIVERSITY OF KING'S COLLEGE STUDENT UNION

The University of King's College Student Union is the organization in which the students enjoy their right of self government. The constitution, revised in 1964, provides for a democratic government in which the participation of every student is expected. The students endeavour to play a determining role in every aspect of university life. The Union is a member of the Canadian Union of Students. The Union's main organs are the Student Assembly, the Executive of the Student Union, the Student Council. The power of self discipline is exercised through the Union's Male and Female Residence Councils and the Campus Police.

The Union operates through a number of permanent committees, e.g: the Academic Committee, the Social Committee, the Saturday Dance Committee; committees on the constitution, elections, finances, Dalhousie relations, awards, etc.

THE 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 Intercollegiate Athletic Union and is governed according to the rules of that association. The K.C.A.A.A. enters teams in several intercollegiate competitions including soccer, basketball, curling, and tennis. There are also inter-bay competitions in softball, hockey, volleyball, badminton, ping-pong, and basketball.

KING'S COLLEGE GIRLS' AMATEUR ATHLETIC ASSOCIATION

The object of this organization is the promotion of amateur sports of all kinds. The K.C.G.A.A.A. is affiliated with the Maritime Provinces Amateur Athletic Association, and is governed according to the rules of that association. The K.C.G.A.A.A. sponsors intercollegiate teams in basketball, volleyball and ground hockey, and in addition organizes and arranges co-ed badminton and volleyball matches in the King's College Gymnasium.

KING'S COLLEGE DRAMATIC AND CHORAL SOCIETY

This society was founded in 1931 to further interest in dramatic and choral work. The society presents an evening of one-act plays during the first term, and a three-act play. In addition, the society sponsors an inter-bay play evening and enters a play in the Connolly Shield Competition.

The Dalhousie Drama Workshop, a branch of the Department of English, offers training in voice production, acting, dance, movement, make-up, costume, set design and construction, and lighting under the direction of experienced instructors. King's students are invited to participate in the activities and productions of the Workshop on the same basis as Dalhousie students.

THE KING'S COLLEGE RECORD

The Record (founded 1878) is published by the undergraduates of the College during the academic year. It contains a summation of the year's activities and awards.

THE QUINTILIAN DEBATING SOCIETY

This society was founded in 1845 and it was largely owing to the initiative of this Society that the Atlantic Intercollegiate Debating League was established. Quintilian sponsors interbay debates during the first and second terms. In addition the men participate in three Intercollegiate debates each year, and the co-eds in two debates.

THE HALIBURTON CLUB

The Haliburton Club was founded and incorporated by Act of Legislature in 1884, and is the oldest literary society on a college campus in North America. Its object is the cultivation of a Canadian Literature and the collecting of

Canadian books, manuscripts, as well as books bearing on Canadian History and Literature. College students and interested students of the City of Halifax meet to listen to papers which are given by literary figures and by the students.

THE ANCIENT COMMONER

The "Ancient Commoner" is the College newspaper. It is published weekly.

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. The annual meeting is held on Saint Andrew's Day, or as near to it as possible. Through the efforts of this organization, divinity students are provided with summer charges and foreign students have been afforded the opportunity of studying Theology at King's.

AWARDS

The Student Bodies of the University of King's College combine to award an overall "K" to participants in King's Activities. Under this system, begun during the 1956-1957 term, a student may receive a silver "K" upon amassing 160 points and a gold "K" upon amassing 250 points.

In addition several awards are presented to students for outstanding achievements in extra-curricular activities.

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 male student of the year. This award is given annually.

Warrena Power Award

Awarded to the girl who has contributed the most to college life during her years at King's.

The R. L. Nixon Award

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

The Prince Prize

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

The Bissett Award

This award is given annually to the College's best all-round male athlete.

The Arthur L. Chase Memorial Trophy

This is presented annually to the student who has contributed most to debating in the College.

The H. L. Puxley Award

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

LOAN FUNDS**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.

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 \$4.00.

The Association maintains annual scholarships.

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

The officers of the Association in 1967-68

President: The Rev. Walter Harris, 6155 Chebucto Rd., Halifax, N. S.

Vice-President: The Rev. Robert D. Crouse, 5885 Spring Garden Rd., Halifax, N. S.

Vice-President: (Outside) Mr. W. Ralph Lewis, 94 St. Peter's Road, Sydney, N. S.

Treasurer: Henry Muggah, Q.C., 6033 Belmont Rd., Halifax, N. S.

Executive Secretary: Mrs. J. Desrosiers, University of King's College, Halifax, N. S.

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 College. It maintains an annual scholarship and bursary and has instituted a fund to support the Alexandra Chair of Divinity.

Officers 1967-68

Patroness	Mrs. A. H. O'Neil
Hon. Life Member	H. R. H. Princess Alice
Hon. Life President	Mrs. G. M. Ambrose
Hon. President	Mrs. H. D. Smith
Immediate Past President	Mrs. A. G. MacIntosh 7052 Pearson Drive, Halifax, N. S.

President	Mrs. V. McSweeney 7 Bligh St., Dartmouth, N. S.
Vice-Presidents	Mrs. A. MacKeigan 35 Reserve St., Glace Bay, N. S.
	Mrs. J. E. Lane 357 Brunswick St., Fredericton, N. B.
	Miss M. Morris Weymouth North, N. S.
	Mrs. G. Sitland 2150 Harvard St., Halifax, N. S.
Recording Secretary	Mrs. Carl Blair Windsor Junction, N. S.
Corresponding Secretary ..	Mrs. V. Fairn 55 Lynn Drive, Dartmouth, N.S.
Treasurer	Mrs. F. R. Peveril 1333 South Park St., Halifax, N.S.
Friends of King's	Mrs. H. D. Smith 6360 Coburg Rd., Halifax, N.S.
Calendar Secretary	Mrs. P. McIvor 8 Lakeview Point, Dartmouth, N.S.

CONVOCATION, MAY 11, 1966 DEGREES CONFERRED

DOCTOR OF CIVIL LAW (*honoris causa*)
Eric Wilfred Balcom
George Frederic Butler

MASTER OF SOCIAL WORK
Helen-Jean Chute
Sidney Tudor Johnson
Judith Ann Simms
Ruth Irene Thompson

BACHELOR OF SACRED LETTERS
The Reverend James Henry Purchase

BACHELOR OF DIVINITY
The Reverend Edward Charles Ellis

GRADUATING CLASS - 1966 B.A., B.Sc.

Honorary Life President Professor Harry S. Granter
Life President David Michael Hart
Life Vice-President Ronald Ernest Buckley
Life Secretary-Treasurer Catherine Adele Brennan

BACHELOR OR ARTS

Blanche, Dale Heather Dartmouth, N. S.
Brady, Susan Brooke Halifax, N. S.
Brennan, Catherine Adele Stellarton, N. S.
Burstall, Margaret Ann Prince's Lodge, N. S.
Campbell, Kadri Halifax, N. S.
Cleveland John William
(Honours) English Lagos, Nigeria
**Cochran, Frances Elizabeth Halifax, N. S.
Eagles, Star Kathryn Armdale, N. S.
Goudey, Lynn Claudine Dartmouth, N. S.
Granchelli, Gordon Francis Sydney, N. S.
Hart, David Michael Bloomfield Station, N. B.
Hayward, Annette Marie
(1st Class Honours) Mod. Lang.)... Grand Falls, Nfld.
Kent, Vernon Glen Halifax, N. S.
**Koh, Julia Jesselton, Sabah, Malaysia
*Leefe, John Gordon Lancaster, N. B.
MacGillivray, Jeannette Florence, N. S.
MacKay, Eric Hugh Glace Bay, N. S.

BACHELOR OF SCIENCE (continued)

- *MacPherson, James
(1st Class Honours) English..... Newtonmore, Scotland
Mann, James Raymond Halifax, N. S.
Maxwell, Malcolm Garth East Saint John, N. B.
Morris, Barbara Mary Halifax, N. S.
Morse, Herbert Owen..... St. Andrews, N. B.
Parks, Nancy Louise Amherst, N. S.
Ripley, Ann Wardell Amherst, N. S.
**St. Clare-Smith, Patricia Michelle
(Rippon) Prince's Lodge, N. S.
Stephenson, Charlotte Anne Toronto, Ont.
Thompson, Joseph Paul Greenwood, N. S.
Wilcox, Charles Richard Granville Ferry, N. S.

BACHELOR OF SCIENCE

- *Bahadoorsingh, Ganesh Trinidad, W. I.
**Bell, Dennis Ernest Armdale, N. S.
Carruthers, Donald Barry Charlottetown, P.E.I.
**Cassidy, Richard Murray Sussex, N. B.
Christiansen, Frank Eric
(1st Class Honours) Biology..... East Riverside, N. B.
Lynk, Mary Elizabeth..... Glace Bay, N. S.
**Mahaney, Gordon Ralston Bridgetown, N. S.
Titus, Lorne Otty Lee Lancaster, N. B.

DIPLOMAS GRANTED

LICENTIATE IN THEOLOGY

- The Reverend Blair Allison Dixon
The Reverend Timothy Alexander Grew
The Reverend William Edward Hart
The Reverend Gordon Charles Neish

*In Absentia

**Conferred during the Session

ENCAENIA AWARDS

MAY - 1966

ARTS AND SCIENCE

- The Governor General's Medal..... Frank Eric Christiansen
French Government Medal Annette Marie Hayward
April Fund Scholarship Frederick David C. Jones
President's Scholarship (Third Year)..... Peter Wright Harris
President's Scholarship (Second Year).... Peter Daniel Swan
President's Scholarship (First Year).... Borden Lorraine Conrad
Alexandra Society Scholarship..... Clare Willis Christie
The Stevenson Scholarship John Hilton Page
Dr. M. A. B. Smith Prize..... John Hilton Page
Bishop Binney Prize..... John Hilton Page
The Beatrice E. Fry Memorial Prize..... Anne Elizabeth Wainwright
The Zaidee Horsfall Prize in Mathematics.. Michael John Maynard Allen
The Almon-Welsford Testimonial Prize... Borden, Lorraine Conrad
The McCawley Classical Prize..... Borden, Lorraine Conrad
The Binney Bursary Clare Willis Christie
Charles Cogswell Bursary Mary Linda Barker
The Harry Crawford Memorial Prize..... Mary Linda Barker
The Jackson Bursary Bruce Herbert Warren Howe

DIVINITY AWARDS

- The Ott Reading Prize Peter Coffin
Peter Harris
The Ott Preaching Prize Frederic Tassinari
The McCawley Hebrew Prize Caldwell McMillan
The Dr. C. Pennyman Worsley Prize Gordon Granchelli
Wallace Greek Testament Prize The Rev. James Purchase
Archdeacon Forsyth Prize Gordon Granchelli
The Florence Hickson Forrester
Memorial Prize The Reverend Timothy Grew
The George Sherman Richards
Proficiency Prize Caldwell McMillan
Shatford Pastoral Theology Prize The Rev. Blair Dixon
The Reverend Timothy Grew
The Reverend Gordon Neish
Prince Prize in Apologetics Gordon Granchelli

SCHOLARSHIPS AWARDED MAY, 1966
POST-GRADUATE

Canon W. S. H. Morris Scholarship.....The Rev. James Purchase

UNDERGRADUATE**Alumni New Living Endowment**

Scholarship Bruce Parkinson Archibald
Anne Patricia Martell

Chancellor's Scholarship Judith Ellen Hoegg
Janet Eileen Mitchell
Faye Louise Woodman

King's Foundation Scholarship..... Nancy Eleanor Oldershaw
Richard Malcolm Wenaus
Sandra Joan Sellick

Halifax-Dartmouth Entrance Scholarship... Barbara-Jo Santarelli
Barbara Lynn Taylor

Keating Trust Scholarship..... Valerie Anne MacDonald
Colleen Ann McCallum

Winfield Memorial Entrance Scholarship.. Donald Cameron Buck

Walter Lawson Muir Bursary..... Marguerite MacGillivray

Nova Scotia Light and Power Scholarship. Bruce Herbert Warren Howe
John Perry Lightfoot