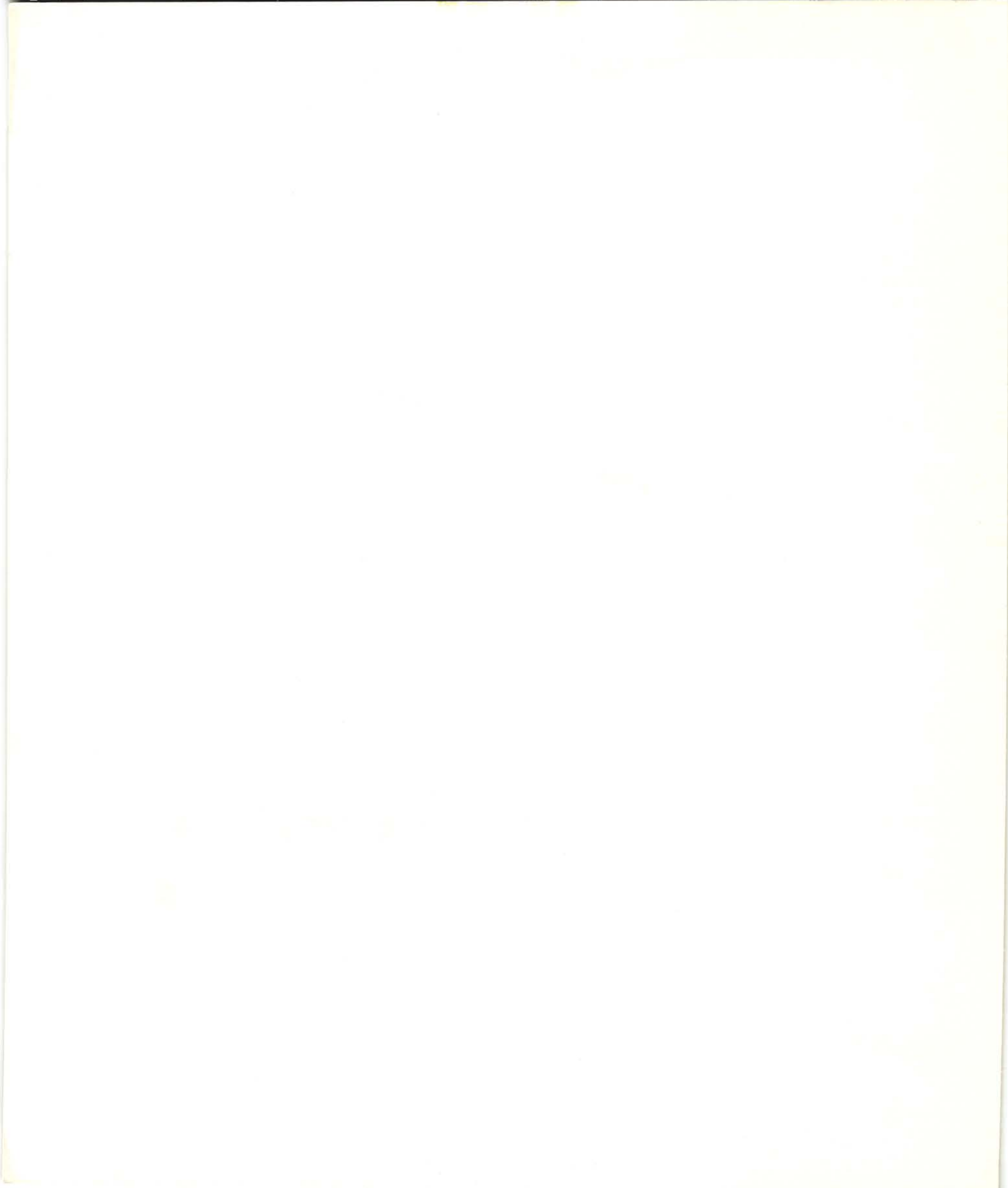


calendar

Faculty of
Medicine



**Dalhousie
University 1986-87**



Dalhousie University Faculty of Medicine

Halifax, Nova Scotia, Canada



Notices

All readers and prospective students are advised that the matters dealt with in this Calendar are subject to continuing review and revision. This Calendar is printed some months before the year for which it is intended to provide guidance.

Any reference to courses or classes contained herein is a statement of courses or classes that have been taught at Dalhousie University in the past. Dalhousie University assumes no obligation to continue to teach such courses or classes and prospective students are asked to consult with the respective Faculty to determine any changes to a course or class description contained herein.

Dalhousie University reserves the right to delete, revise or add to anything described in this Calendar without notice, other than through the regular processes of Dalhousie University, and every student accepted for registration in the University shall be deemed to have agreed to any such deletion, revision or addition whether made before or after said acceptance.

Dalhousie University does not accept any responsibility for loss or damage suffered or incurred by any student as a result of suspension or termination of services, courses or classes caused by reason of strikes, lockouts, riots, weather, damage to university property or for any other cause beyond the reasonable control of Dalhousie University.

The University reserves the right to limit enrollment in any program. Prospective students should note carefully the application deadlines indicated for the various programs. They should be aware that enrollment in most programs is limited and that students who are admitted to programs at Dalhousie are normally required to pay deposits on tuition fees to confirm their acceptance of offers of admission. These deposits may be either non-refundable or refundable in part, depending on the program in question. While the University will make every reasonable effort to offer classes as required within programs, prospective students should note that admission to a degree or other program does not guarantee admission to any given class, except those specified as required, within that program. Students should select optional classes early in order to ensure that classes are taken at the most appropriate time within their schedule. In some fields of study, admission to upper level classes may require more than minimal standing in prerequisite classes.

Inquiries regarding Academic Matters should be directed to:
The Registrar
Dalhousie University
Halifax, Nova Scotia
Canada
B3H 4H6
902-424-7068

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Faculty of Medicine Almanac 1986-87

May 1986

Monday, 5: Clinical clerkship begins, Medicine.

Monday, 12: Senate meeting to consider candidates for the award of degrees in Medicine.

Tuesday 13, Wednesday, 14: LMCC Examinations, Medicine.

Friday, 16: University Convocation (Medicine).

Monday, 19: Victoria Day.

June

Wednesday, 11: Intern training begins, Medicine.

Monday, 30: Last regular day for registration of postgraduate medical residents.

July

Tuesday, 1: Canada Day.

Resident Training begins, Medicine.

Postgraduate Medicine Residency programs commence.

August

Monday, 4: Halifax Natal Day and Dartmouth Natal Day — no classes

Friday 8-15: Supplemental and deferred examinations, Medicine (first and second years)

September

Monday, 1: Labour Day.

Tuesday, 2: Registration ends and classes begin in Medicine, School of Human Communication Disorders, MBA, Dentistry, Dental Hygiene and Outpost Nursing.

October

Wednesday, 1: Applications available, Medicine.

Monday, 13: Thanksgiving Day.

Saturday, 18: Fall convocation.

November

Tuesday, 11: Remembrance Day, no classes.

December

Monday, 1: Last day to apply for post-graduate training, Medicine.

Monday, 15: Last day for receipt of MD applications.

Wednesday, 17: Christmas finals begin, Medicine (first and second years).

Friday, 19: Christmas finals end, Medicine (first and second years).

Thursday, 25: Christmas Day.

Friday, 26: Boxing Day.

January 1987

Thursday, 1: New Year's Day.

February

Friday, 6: Munro Day, no classes.

Saturday, 7: Winter Carnival, no classes.

Monday, 23: Study break begins.

March

Monday, 2: Classes resume.

April

Tuesday, 7: Final examinations end, Medicine (third year).

Wednesday, 8: Final examinations end, Medicine (third year).

Friday, 17: Good Friday.

May

Friday, 15: Senate meets to consider candidates for the award of degrees in Medicine.

Monday, 18: Victoria Day.

Final examinations begin, Medicine (first and second years).

Friday, 22: University Convocations (Medicine).

Tuesday, 26: Examinations end, Medicine (first and second years).

June

Wednesday, 17: Internship year begins.

Admission Dates

Arts and Science

Students entering from Canada or US	August 1
Foreign Students (except USA)	May 1
Transfer Students ¹	July 1
BEd Program	May 30

Health Professions

(Undergraduate)	
Transfer Students ¹	July 1
Recreation, Physical and Health Education	July 15
BSc (Nursing)	April 1
BN for Post RN ²	August 1
Outpost and Community Health Nursing ³	April 15
Occupational Therapy	March 1
Physiotherapy	January 28
Pharmacy	March 1
Social Work	March 1

Management Studies

Students entering from Canada or US	August 1
Transfer Students	July 1
Non-American Foreign Students	May 1

Graduate Studies (except as below)

Non-North American Students	August 1
Human Communication Disorders	May 31
Law	February 28
Library Service ⁵	April 15
Nursing	April 15
Oral Surgery ⁶	May 31
Social Work	June 30
	January 31

Dentistry December 1

Dental Hygiene January 31

Medicine

MD	December 15
Post-Graduate	December 1

Law⁴ February 28

Winter Term

BA ⁷ BSc ⁷ and BComm programs only	November 15
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Early registration and registration by mail is possible for most students, and is advised.

¹ Except Occupational Therapy, Pharmacy, Physiotherapy, Social Work.

² Subject to change depending on numbers applying

³ Application date for class entering in January is October 1

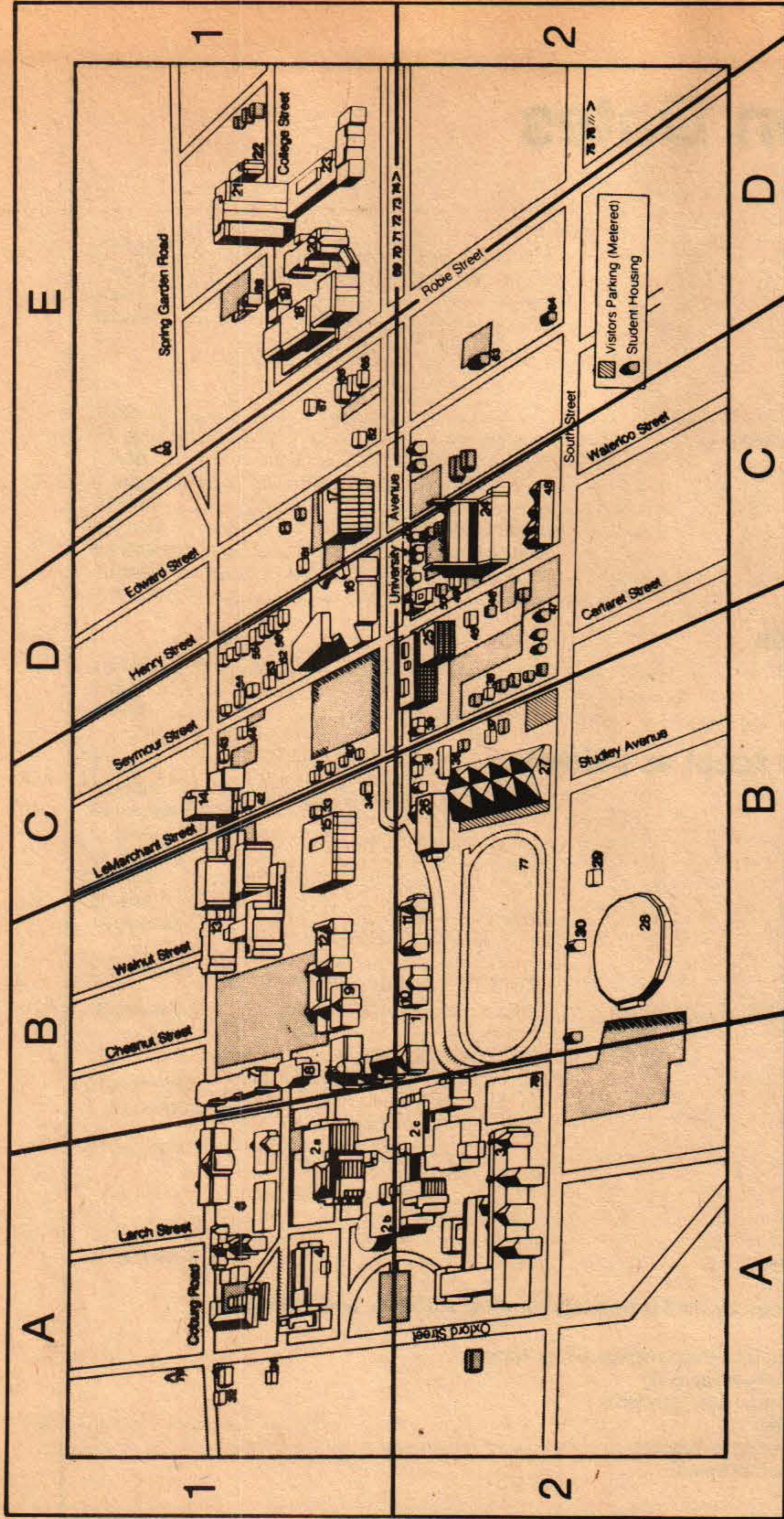
⁴ Late applications may be considered

⁵ Late applications may be considered up to August 1

⁶ Of year preceding commencement of program

⁷ Part-time and transfer students only

The Campus Map



Admissions - 1 (B1, B2)
 Alumni Office - 30 (B2)
 Arts and Administration Building - 1 (B1, B2)
 Arts Centre - 16 (C1)
 Biology - 2a (A1)
 Bookstore - 25 (C2)
 Burbridge Building - 19 (E1)
 Business Administration, School of - 14 (C1)
 Central Services Building - 24 (C2)
 Chemistry - 9, 12 (B1)
 Classics - 36 (C2)
 Comparative Religion - 7 (B1)
 Computer Centre - 15 (B1)
 Counselling and Psychological Services - 25 (C2)
 Dalplex - 28 (B2)
 Day Care - 5 (A1)
 Dentistry and Dental Hygiene - 18 (E1)

Development Office - 43 (C1)
 Dunn Building - 7 (B1)
 Economics - 35 (B2)
 Education - 11 (B2)
 Engineering - 7 (B1)
 English - 53, 55 (C1)
 Forrest Building - 20 (E1)
 French - 40 (C1)
 Geology - 2b (A2)
 German - 41 (C1)
 Graduate House - 39 (C2)
 Henson College - 51 (C2)
 History - 54 (C1)
 Howe Hall - 13 (B1)
 Institute of Public Affairs (IPA) - 51 (C2)
 Killam Library - 15 (B1)
 King's College - 6 (A1)
 Law Building - 17 (D1)
 Life Sciences Centre - 2a,b,c (A1, A2)
 Macdonald Science Library - 9 (B1)

Mathematics, Statistics and Computing Science - 8 (B1)
 Medicine - 21 (E1)
 Nursing, School of - 20 (E1)
 Occupational Therapy, School of - 20 (E1)
 Oceanography - 2b (A2)
 Old Public Archives Building - 8 (B1)
 Part-time Studies & Extension - 57 (C2)
 Pharmacy, College of - 19 (E1)
 Philosophy - 56 (C1)
 Physics - 7 (B1)
 Physiotherapy, School of - 20 (E1)
 Political Science - 1 (B1, B2)
 Psychology - 2c (A2)
 Public Administration, School of - 15 (B1)
 Public Relations - 15 (B1)
 Recreation, Health & Phys. Ed., School of - 29 (B2)
 Rink - 27 (B2)

Russian - 33 (B1)
 Security and Traffic - 24 (C2)
 Shirreff Hall - 3 (A2)
 Sociology and Social Anthropology - 48 (C2)
 Spanish - 33 (B1)
 Student Union Building - 25 (C2)
 Studley Gymnasium - 26 (B2)
 Theatre - 16 (C1)
 Tupper Building - 21 (E1)

For more specific locations of offices and departments, consult: The university switchboard, 424-2211, or the Halifax-Dartmouth telephone directory, or the Dalhousie telephone directory.

Board of Governors

Chancellor
Lady Beaverbrook, LL.D.

President and Vice-Chancellor
W.A. MacKay, QC, BA, LL.B, LL.M, LL.D.

Board of Governors

Miss Catherine Blewett
Dr. Mona L. Campbell
Mr. Wesley G. Campbell
Dr. H. Reuben Cohen
Mrs. Margie Cooper
Mr. George T.H. Cooper
Mr. James S. Cowan
Dr. Donna M. Curry, Honorary Secretary
Mrs. Jamie DeWolf
Mr. Peter R. Doig
Mr. Stevan Ellis
Mr. Brian Flemming
Mrs. Betty Flinn
Mrs. Jean Fraser
Mr. David J. Hennigar
Miss Jill Jackson
Mr. Donald A. Kerr
Ms. Mary L.C. Lamb
Mr. J. Gordon Lawley
Mr. John W. Lindsay
Miss Zilpha Linkletter
Mrs. Annemarie MacDonald
Mr. Alexander J. MacIntosh
Dr. C. Peter McColough
Mr. E. Neil McKelvey
Mrs. Shirlee Medjuck
Mr. John Moore
Dr. Clifford Murray
Mr. George C. Piercey, Vice-Chairperson
Dr. Cedric E. Ritchie
Mr. W. Struan Robertson, Chairperson
Dr. Henry Roper
Mr. Allan C. Shaw, Honorary Treasurer
Mr. Donald C.R. Sobey
The Hon. R.L. Stanfield
Mr. Tom Taylor
His Worship Ronald Wallace, Mayor of Halifax
Mrs. Peggy Weld, Vice-Chairperson
Mr. F.B. Wickwire
Mr. Sherman Zwicker

Executive Secretary

Dr. A.J. Tingley

Observers for Senate

Dr. W.E. Jones
Dr. J.A. McNulty
Dr. R.S. Rodger

Observer for Faculty Association
Dr. J.G. Rutherford

Administrative Officers

Vice-Presidents

L. Robert Shaw, BA, LL.B, Finance and Administration
Alasdair M. Sinclair, BA, MA, BPhil, PhD, Academic and Research

Assistant Vice-Presidents

Robert O. Fournier, MSc, PhD, Research
John W. Graham, BComm, University Services
John Mabley, BA, MA, EdS, Development

Deans of Faculties

Arts and Science: Donald D. Betts, MSc, PhD, FRSC
Dentistry: Ian C. Bennett, BDS, DDS, MSD, FACD, FICD
Graduate Studies: Kenneth T. Leffek, BSc, PhD, FCIC (Chem.)
Health Professions: Robert S. Tonks, BPharm, PhD, FPS
Law: Innis C. Christie, BA, LL.B, LL.M
Management Studies: Norman Horrocks, BA, MLS, PhD, FLA, ALAA
Medicine: T.J. (Jock) Murray, MD, FRCP(C)

Other Administrative Officers

Registrar (pro tem): Mary MacGillivray, BA
Director of Admissions: William D. Courrier, BSc, MSc, PhD
University Librarian: William F. Birdsall, MA, PhD
Dean of Student Services: Edward T. Marriott, BA, MEd
Dean of Continuing Education: Michael S. Cross, MA, PhD
Executive Director, Computer and Information Services: Peter Jones, MSc
Coordinator and General Administrator, Cultural Activities: John D. Wilkes, BA
Director of Alumni Affairs: Heather Sutherland, BSc, MEd
Director of Public Relations: Marilyn MacDonald, MA
Dean of Women: Pamela Stonehouse, BSc, MEd
Dean of Men: Patrick Donahoe, BA, MA
Director, Counselling and Psychological Services: Judith Hayashi, BA, MA
Director, University Health Services: Rosemary Gill, MD
Director, Personnel Services: Michael J. Roughneen, BA
Director, Awards: Gordon Steedman, BA
Director, Finance: Michael J. Wright
Director, Research Services: Christine Nielsen, BSc

Dalhousie University

Dalhousie University is a non-denominational co-educational university. Founded in 1818, the University is a member of the Association of Universities and Colleges of Canada, the Atlantic Association of Universities, and the Association of Commonwealth Universities.

Dalhousie's student population has grown to over 10,000 students. To accommodate these, in a wide variety of undergraduate, professional, and graduate programs offered, Dalhousie occupies more than 60 acres in a residential area of the city of Halifax. University facilities include buildings for teaching and research, libraries, residential housing for students, a Student Union Building, an Arts Centre for music, theatre, and an art gallery, and facilities for physical recreation. The Nova Scotia Archives building, the Atlantic Regional Laboratory of the National Research Council, major provincial hospitals, and the Dr. D.J. MacKenzie Laboratories are located in close proximity to the University. Dalhousie benefits from a variety of arrangements for teaching and research collaboration with hospitals and federal and provincial research laboratories.

The University of King's College, situated on the Dalhousie campus, is an affiliated institution, and its students in Arts and Science receive Dalhousie degrees authorized in the name of both institutions. By agreement with Mount Saint Vincent University there is co-operation in access for students to various courses and services, and by agreement with the Technical University of Nova Scotia there are co-operative arrangements for engineering, engineering-physics, and computer science studies. By arrangement with the Nova Scotia Teachers College, graduates of that institution may complete education degree requirements at Dalhousie. Co-operation in a number of academic programs, in administrative services, and in use of library resources is also provided for in working arrangements with Saint Mary's University and other institutions in Halifax.

Arrangements have been concluded with the Nova Scotia Agricultural College, which provide for the award of degrees in Agriculture by Dalhousie in cooperation with the College.

Under the University's statutes the Board of Governors is responsible for the operation of the University. The Board consists of representatives named by the Government of Nova Scotia, by the alumni, by the Student Union and by certain other bodies. Internal regulation of the University is the primary concern of the Senate, subject to approval of the Board of Governors. The Senate consists of the President, Vice-Presidents, Deans of faculties and academic department heads, Registrar, full professors, other members of the academic staff elected from and by each faculty, six students elected by students, and certain other persons.

The President and Vice-Chancellor is the Chief Executive Officer of the University, responsible to the Board of Governors and Senate for supervision of the University's administrative and academic work.

Subject to the general approval of the Senate, seven faculties are responsible for supervision of programs of study, of teaching and research, and for the recommendation of candidates for degrees, diplomas, and university prizes.

Faculties

Faculty of Arts and Science (the humanities, the physical, life and social sciences, some performing arts, education, introductory years in engineering);

Faculty of Health Professions (nursing, occupational therapy, pharmacy, recreation, physical and health education, physiotherapy, human communication disorders, social work and health services administration);

Faculty of Management Studies (commerce and business administration, public administration, library service);

Faculty of Medicine (basic medical sciences, medicine, medical internship and clinical specializations, continuing medical education);

Faculty of Law (law);

Faculty of Dentistry (dentistry, dental hygiene, and continuing dental education);

Faculty of Graduate Studies (advanced study in the humanities, the physical, life, social, and medical sciences, and a number of professions).

Coordination of continuing education programs both for degree credit and part-time studies and community education activities is being organized by the Dean of Continuing Education.

Schools and Colleges

Business Administration

Dental Hygiene

Health Services Administration

Human Communication Disorders

Library Service

Maritime School of Social Work

Nursing

Occupational Therapy

Pharmacy

Physiotherapy

Public Administration

Recreation, Physical and Health Education

Institutes and Centres

Atlantic Institute of Biotechnology

Applied Microelectronics Institute

Atlantic Institute of Criminology

Atlantic Region Magnetic Resonance Centre

Atlantic Research Centre for Mental Retardation

Canadian Centre for Marine Transportation

Centre for African Studies

Centre for Foreign Policy Studies

Centre for International Business Studies

Centre for Marine Geology

Centre for Regional and International Development Projects

Dalhousie Ocean Studies Program

Institute for Resource and Environmental Studies

Institute of Oceanography

Institute of Public Affairs

Lester B. Pearson Institute for International Development

Trace Analysis Research Centre

Academic Programs and Information Sources

In 1986-87 Dalhousie will offer the following academic programs. The normal years of full-time study are shown. Information about each may be found in the relevant University calendar.

Faculty of Arts and Science

Bachelor of Arts (Major 3 years, Honours 4 year)
 Bachelor of Science (Major 3 years, Honours 4 years)
 Diploma in Engineering (2 years)
 Bachelor of Education (Sequential) (1 year post BA, BSc)
 Bachelor of Education (Integrated) (4 years for BA or BSc with BEd, 5 years for BPE with BEd)
 Bachelor of Music (4 years)
 Bachelor of Music Education (4 years)
 Certificate in Costume Studies (2 years)
 Diploma in Costume Studies (3 years)
 Diploma in Meteorology (1 year)
 Certificate in Educational Administration (minimum 1 year)

Faculty of Management Studies

Bachelor of Commerce (Major and Honours 4 years)
 Certificate in Public Administration (1 year)

Faculty of Health Professions

Bachelor of Physical Education (4 years)
 Bachelor of Recreation (4 years)
 Bachelor of Science (Health Education) (4 years)
 Bachelor of Science (Nursing) (4 years)
 Bachelor of Nursing (with previous RN) (3 years)
 Bachelor of Science in Pharmacy (4 years)
 Residency Program Pharmacy (1 year) (post BSc Pharm)
 Bachelor of Science (Physiotherapy) (3 years Physiotherapy following one year of Arts and Science or minimum 2 years post Diploma program)
 Bachelor of Science (Occupational Therapy) (3 years Occupational Therapy following one year of Arts and Science)
 Bachelor of Social Work (3 years Social Work study following one year general study, a wide choice permitted)

Faculty of Dentistry

Doctor of Dental Surgery (4 years)
 Postgraduate Certificate in Periodontics (2 years)
 Diploma in Dental Hygiene (2 years)

Faculty of Law

Bachelor of Law (3 years)
 Bachelor of Laws with Master of Business Administration (4 years)

Faculty of Medicine

Doctor of Medicine (4 years)
 Intern Year (1 year)
 Residencies (various programs ranging from 2-6 years post-intern)

Faculty of Graduate Studies

Master of Arts (1 or 2 years, with thesis) in Classics, Economics, Education, English, French, German, History, Mathematics, Philosophy, Political Science, Psychology, and Sociology
 Master of Science (1 or 2 years with thesis) in Anatomy, Biochemistry, Biology, Chemistry, Geology, Health Education, Human Communication Disorders, (Audiology or Speech Pathology), Mathematics, Microbiology, Oceanography, Oral Surgery (4 years), Pathology, Pharmacology,

Pharmacy, Physical Education, Physics, Physiology and Biophysics
 Doctor of Philosophy (2 or 3 years, with thesis) in Anatomy, Biochemistry, Biology, Chemistry, Classics, Economics, Education, English, Geology, History, Interdisciplinary Studies, Mathematics, Microbiology, Oceanography, Pharmacology, Pharmacy, Philosophy, Physics, Physiology and Biophysics, Political Science, Psychology
 Doctor in the Science of Law (2 or 3 years, with thesis)
 Master of Arts in Teaching (French) (2 years)
 Master of Business Administration (2 years)
 Master of Education (1 year)
 Master of Environmental Studies (1 or 2 years)
 Master of Health Services Administration (2 years)
 Master of Laws (1 year)
 Master of Library Service (2 years)
 Master of Public Administration (2 years)
 Master of Development Economics (2 years)
 Master of Nursing (2 years)
 Master of Social Work (1 or 2 years)
 Diploma in Public Administration with Bachelor of Laws (4 years)

Honorary Degrees

The degree of Doctor of Laws may be conferred *honoris causa tantum* upon approval of the Senate in recognition of significant contributions to society. All other degrees earned in course are approved by Senate.



1868 - The original Medical School in Dalhousie College was located in the Grand Parade, City Hall

Special Institutes

A number of special institutes for study and research in specific fields are based at the University. Among these are:

The Institute of Public Affairs

Acting Director: M. Cross, BA, MA, PhD

Aided by a grant from the Rockefeller Foundation, Dalhousie University established its Institute of Public Affairs in 1936. The Institute was conceived as an experimental centre, a bridge between University and community in the area of social science and public policy.

The work of the Institute involves applied research and continuing education in four program areas: (1) social and economic policy studies; (2) public administration; (3) industry, with programs for developing management capability, for training labour leadership, and for developing effective management-labour relationships; and (4) community service. Institute activities focus on matters of regional, provincial, and local concern.

The Henson Centre, on the southeast corner of University Avenue and Seymour Street, is designed as a conference centre for the Institute's own programs and as a community meeting facility. Institute staff are available to assist groups in organizing and conducting workshops, seminars, and other events. The Institute of Public Affairs Library serves the Institute's own research staff, and is open to students and faculty of the University and to the general public. The Institute Publications Unit, which publishes and distributes Institute-related studies, conference reports, occasional papers and reprints, has a current list of more than one hundred titles.

The Atlantic Institute of Criminology

Director: R. C. Kaill, BA, MDiv, MA, PhD

The Atlantic Institute of Criminology has been established to provide a criminological research and career-development facility in the Atlantic Region, equivalent to those existing in other regions of the country. Scholarships for graduate students in Criminology have already been announced for the current academic year. An interdisciplinary graduate program in criminology is also projected.

Policy for the Atlantic Institute of Criminology is the responsibility of an Advisory Board comprising twelve representatives from the academic and professional community of the region.

Associate memberships are available to interested and qualified persons. Workshops and training courses provide opportunities for professional development for employees of the Criminal Justice system in the Atlantic Region.

Dalhousie Ocean Studies Program

Director: E. Gold, BA, LLB, PhD, FNI, MCIT, MRIN

The Dalhousie Ocean Studies Program (DOSP) was established in the summer of 1979, chiefly as the result of a major five-year negotiated grant from the Social Sciences and Humanities Research Council of Canada and substantial support by Dalhousie University. DOSP's current research activities include: (1) economic zone policy and legislation studies; (2) marine pollution regulation studies; (3) Canadian shipping law and policy studies; (4) studies of ecosystem management problems in the Gulf of Maine and Bay of Fundy; (5) Nova Scotia rural coastal community studies; (6) maritime boundary delimitation studies; (7) studies of ocean law, policy and management in the Eastern Caribbean; and (8) bibliographical services in ocean law, policy and management. Extension into further study areas is planned. DOSP has

also undertaken training responsibilities in the field of ocean law, policy and management in conjunction with other institutions, and participates in a wide range of conference and workshop activities in many parts of the world.

The Institute of Oceanography

Director: A. J. Bowen, MA, PhD

Established in 1959, the Institute has received continuous support through grants from the National Research Council of Canada. It forms part of a major marine research establishment in the Halifax area and maintains the Aquatron Laboratory, a marine research facility containing large seawater tanks and controlled-environment labs. The facility is available to researchers from universities, governments, and the private sector.

The Atlantic Research Centre for Mental Retardation

Director: M.W. Spence, MD, PhD

Established in 1967, the Centre conducts basic biomedical research and population studies in the field of mental retardation. It also provides education in this field to undergraduate and graduate students and the general public. Special tests and consultative services for the prevention and treatment of diseases causing mental retardation are provided by the Centre. The Centre's professional staff hold appointments in various departments of the Faculty of Medicine. Its work is supported by grants from agencies such as the Medical Research Council of Canada, the Department of National Health and Welfare, the Scottish Rite Charitable Foundation of Canada, and the governments of the three Maritime provinces, and by private donations.

The Atlantic Region Magnetic Resonance Centre

Director: W.A. Aue, PhD

Established in 1982 with assistance from the Natural Sciences and Engineering Research Council, the Centre is concerned with teaching and research programs in magnetic resonance. The Centre has modern nuclear magnetic resonance (NMR) and electron spin resonance (ESR) instruments including a 360 MHz Narrow Bore Nicolet NMR instrument.

In addition to providing well-equipped laboratories and instrumentation for resident and visiting faculty, research scientists and students, the Centre provides NMR spectra and expertise to scientists of eleven universities and research institutes in the Atlantic Region.

The Centre for Foreign Policy Studies

Director: R. Boardman, BSc, PhD

Established in 1971 with the assistance of a grant from the Donner Canadian Foundation, the Centre is concerned with teaching, research and other professional activities in various aspects of foreign policy and international politics. The work of the Centre is concentrated in the following areas: Canadian Foreign Policy, Maritime and Strategic Studies, and International Political Economy and Developmental Studies. Geographical specializations include African, Chinese, European and American foreign policy.

The Centre is affiliated with the Department of Political Science at Dalhousie University. Centre faculty offer courses in the Department on international relations, foreign and defence policy at both undergraduate and graduate levels. They also supervise masters and doctoral students in these fields.

The Trace Analysis Research Centre

Director: D.E. Ryan, BSc, MA, PhD, DIC, DSc

With the assistance of a grant from the National Research Council, the Centre was established in 1971 to train analytical chemists and, through research, to contribute to the advancement of analytical chemistry. A major facility of the Centre is a low-power nuclear reactor (SLOWPOKE) which is available to researchers within Dalhousie and elsewhere.

The Institute for Resource and Environmental Studies

Director: A.J. Hanson, BSc, MSc, PhD

This Institute was established in 1973 with a supporting grant from the Province of Nova Scotia. It provides a mechanism for coordinated and interdisciplinary research on natural resource management and environmental problems of applied significance in Canada or abroad. The Master of Environmental Studies graduate degree program is offered through the Institute.

The Centre for African Studies

Director: T.M. Shaw, BA, MA, PhD

This Centre, established in 1975, coordinates a teaching and research program in African Studies. Its staff hold primary appointments in departments in the social sciences and the humanities. It organizes postgraduate/staff seminars on Africa and encourages interdisciplinary interaction at all levels on African subjects and issues.

The Centre for International Business Studies

Director: A.M. Rugman, BA, MSc, PhD

The Centre was established in 1975 with the aid of a grant from the Department of Industry, Trade and Commerce. Its purposes include the provision of specialist training in international business studies and research in international business. It carries out these functions within the administrative framework of the School of Business Administration.

The Canadian Centre for Marine Transportation

Director: J. Gratwick, BSc

Established in 1977 with federal and provincial support, the Centre encourages interdisciplinary studies of marine transportation issues from a Canadian perspective. Centre research studies are funded by various public and private sector sources. Student research assistantships which result provide research experience in the marine transportation field. The Centre also facilitates graduate student applications for "Transportation Fellowships" offered annually by Transport Canada.

Centre for Regional and International Development Projects

Director: D. Cherry, BComm, MBA, CMA

The Centre was established at Dalhousie University, in 1979, as an extension of work being undertaken by Dalhousie faculty in the broad field of economic development projects and studies. Although the Department of Economics nurtured its formation, the Centre has subsequently become interdisciplinary in character and is completely separate from the department.

The Centre for Development Projects strives to encourage and facilitate further involvement by Canadian faculty and students in significant international development projects, and to initiate and direct such projects in cooperation with institutions in the Third World. Outside personnel with appropriate experience are encouraged to spend time with the Centre, as are Dalhousie faculty to take secondment with appropriate development agencies in Canada and overseas as well as participating in particular development projects.

The Centre primarily focuses on the implementation and management of international development programs and projects, and has been responsible for the direction of a number of training and applied research projects in Ghana, Zimbabwe, the Caribbean and India. An annual review is available which discusses the range of activities historically undertaken by the Centre.

Lester Pearson Institute for International Development

Director: T.M. Shaw, BA, MA, PhD

The Pearson Institute is a new organization, funded by the Secretary of State, which aims to enhance Dalhousie's role in development studies,

education and projects. Founded in mid-1985, this Institute is intended to promote Dalhousie's Third World activities in collaboration with established development centres and agencies. Major activities include public lectures and conferences, seminar series, applied and theoretical research, publications, training programs and input into public policy on Canada's role in international development. The Institute advances international development degree and non-degree programs and hosts the University Chair in Development Studies.

The Atlantic Institute of Biotechnology

Director: R. Bidwell, BSc, BA, MA, PhD

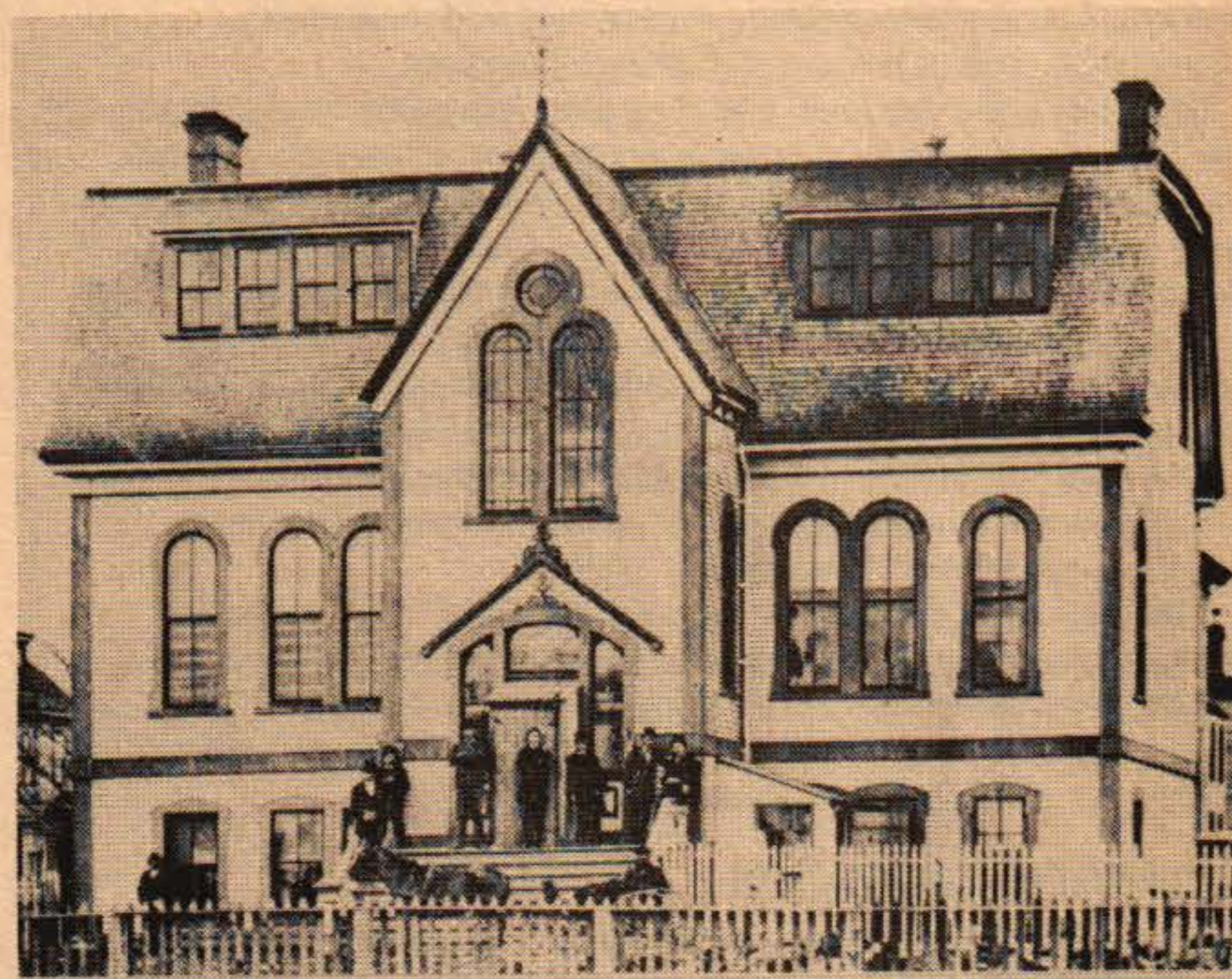
The Atlantic Institute of Biotechnology was established in 1985 with funding from the Department of Regional Industrial Expansion. Its purpose is to assist industry in Atlantic Canada to improve biologically-based processes, and to develop new manufacturing and industrial techniques.

The Institute's main areas of specialization are agricultural and forest technology, fermentation, aquaculture and microbial mining technology. In addition, work is undertaken for any industry on biological systems, including food production and processing, chemical production, biomass conversion, plant and animal nutritional systems and bio-pollution related problems.

Centre for Marine Geology

Director: J.M. Hall, BSc, PhD

The Centre for Marine Geology was founded in 1983 to promote the interdisciplinary study of the continental margins and the sea floor. The Centre draws on the faculty and resources of the Departments of Geology, Oceanography and Physics and others. The objectives of the Centre are: (1) to expand the university's leading role in international studies of the oceanic crust, (2) to participate with industry and government in the geological aspects of oil and gas development on Canada's east coast and (3) to continue research on sedimentation and the recent history of the Canadian offshore.



1875-1915 - the Halifax Medical College

General Information

Libraries

The Dalhousie University Library System is organized to accommodate the needs of the undergraduate teaching programs, graduate and faculty research projects, and professional schools. The system is made up of the following components: the University Library (Killam Library — Humanities, Social Science, and Mathematics; Macdonald Library — Sciences), the Sir James Dunn Law Library (temporarily located in the Killam Library), and the Kellogg Health Sciences Library.

As of April 1, 1985, the total Dalhousie University Library System holdings include over 1,519,000 volumes of books, bound periodicals, documents, and bound reports, 279,800 microfiche and microcards, and 120,000 data cards, maps, musical scores, and other media. 12,000 serials titles are currently received, and dead title holdings number over 6,000.

The University Library alone has a collection of over 613,000 volumes of books and bound serials, as well as a periodical collection of more than 6,100 current subscriptions, and a government documents collection of over 275,000 items. In addition to the traditional printed materials, the library is developing its resources in forms such as records and microforms.

University Computing and Information Services

University Computing and Information Services (UCIS) is responsible for all centrally managed computing and communications facilities and services. These are available to faculty, staff and students for instructional, research and administrative purposes.

UCIS has three divisions. "Facilities and Operations" is responsible for the operation of central computers, hardware maintenance services, campus communications (including the telephone system) and central word processing and data entry services. "Academic Computing Services" provides consulting, education and documentation services related to the use of both large computers and personal computers. It is also responsible for support and maintenance of applications software for academic users. "Administrative Computing Services" is responsible for the selection, installation, development and maintenance of administrative computing systems, and for providing advice and education to users of administrative systems.

Currently, UCIS supports a Control Data Cyber 730 mainframe computer for general use, a couple of minicomputers for specific departments, plotters, public terminal laboratories and a microcomputer laboratory. A wide range of computer languages and applications software is available on the Cyber computer.

Student Services

Located in Room 124 of the Arts and Administration Building, this office provides a point of referral for any student problems. The Dean coordinates the administration of Awards, Chaplaincy, Counselling and Psychological Services, University Health, the *Writing Workshop*, the Ombud Office, and is the International Student Adviser. Through the Council of Student Life, the Dean acts as liaison with the Deans of Residences and the Student Union. Active participation exists among the various divisions and the officials of Housing, Recreation, and the Federal Employment Office located on campus.

The Dean can assist students with any University related problem, and can offer direction in class or program selection to ensure compliance with the degree requirements of Dalhousie University. A special program has been developed for students requiring academic assistance. All divisions of Student Services co-operate in the program together with a number of departmental faculty advisers. Students who may experience difficulties are encouraged to consult with the Dean who reviews their situation and advises them of the various services available.

Many students, particularly those in their first year, experience difficulty in organizing and presenting written work. In an attempt to respond to this problem, the University provides a *Writing Workshop*. Attendance is on a voluntary basis. For further information call 424-2404.

Non-Canadian students should look to this office for assistance in matters related to immigration status, medical insurance or any matter of special concern to visa students.

Information about CUSO, WUSC and CBIE can be had through the Office of the Dean.

Student Counselling Service

The Counselling and Psychological Services Centre offers programs for personal, career and educational concerns. Counselling is provided by professionally trained, male and female, Counsellors and Psychologists. Strict confidentiality is ensured. Counselling is available both individually and on a group basis. Topics covered by regularly offered group programs include Study Skills, Career Decision Making, Exam Anxiety Reduction, Public Speaking Anxiety Reduction, Assertiveness Training and Shyness Clinic, Resume Writing and Job Search Skills. Information on a wide variety of careers and academic programs is available in the Career Information Centre. Students wishing to get a first hand view of careers they are considering entering, may contact alumni willing to discuss their career experiences through the Centre's Mentors and Models program.

The Counselling and Psychological Services offices and the Frank G. Lawson Career Information Centre are located on the 4th Floor of the Student Union Building. Inquire or make appointments by dropping in or calling 424-2081.

Chaplaincy at Dalhousie

The University provides facilities for chaplains appointed by various churches. There are four full-time chaplains at Dalhousie, representing the Anglican, Roman Catholic, Lutheran, and United Church traditions. In addition, contact ministers are designated by the Baptist, Jewish, and Presbyterian traditions and can be reached through the Chaplains' Office on campus. The Chaplains' Office is located on the third floor of the Student Union Building. Office hours are Monday to Friday 9-5. Appointments can be made for other convenient times. The chaplains are available at any time for emergencies. Outside office hours, chaplains may be reached by calling 455-7971, or via the SUB Enquiry Desk 424-2140.

University Health Service

The university operates an out-patient service, in Howe Hall, at Coburg Road and LeMarchant Street staffed by general practitioners and a psychiatrist. Further specialists' services are available in local hospitals and will be arranged through the Health Service when indicated. All information gained about a student by the Health Service is confidential and may not be released to anyone without signed permission by the student.

In the event of emergency, students should telephone the University Health Service at 424-2171 or appear at the clinic in person. The university maintains health services on a 24-hour basis with a physician on call. The offices are closed from 10 p.m. to 9 a.m.

All students must have medical and hospital coverage approved by the Health Service. All Nova Scotia students are covered by the Nova Scotia Medical Services Insurance. All other Canadian students must *maintain* coverage from their home provinces. This is especially important for residents of any province requiring payment of premiums. All non-Canadian students must be covered by medical and hospital insurance prior to registration. Details of suitable insurance may be obtained from the University Health Service prior to registration. Any student who has had a serious illness within the last 12 months, or who has any chronic medical condition, should contact and advise the Health Service, preferably with a statement from his doctor.

The cost of any medication prescribed by a physician is recoverable under a prepaid drug plan administered by the Student Union.

Housing Services

For the 55 per cent of Dalhousie University Students whose homes are outside the Halifax Metropolitan area, where to live while attending university is a major question. The supply of University owned housing does not meet the demand and the vacancy rate in the various private, commercial units is very low. It is therefore very important that students planning to attend Dalhousie think well in advance about their accommodation needs. It is fair to say two things about housing for Dalhousie students: first, early application for University residence is essential and second, students seeking off-campus housing should also begin to investigate that process well in advance of the beginning of term.

The traditional style residences at Dalhousie are chiefly for undergraduate students; very few graduate spaces are allocated and in many cases students pursuing advanced degrees are not prepared to live with the exuberance of first and second year students.

The information below gives a description of A. traditional on-campus residences, B. off-campus housing owned by the university and C. the services offered by the off-campus housing office listing service. In each case the name of the person responsible is listed and telephone number provided.

Please Note: Academic acceptance by the University, i.e., admission to a course of study, DOES NOT IN ANY WAY GUARANTEE admission to University housing or provision of off-campus accommodation.

It is the responsibility of the individual student in all cases to make separate application for the university housing of her/his choice, or to avail him/herself of the listing services provided by the Off-Campus Housing Office.

Early application for university residences and housing is strongly recommended. Applications will be received commencing January 1. Students are encouraged to complete their applications before March 1.

A. Traditional Style On Campus Residence

Howe Hall — Men (located on corner of Coburg Rd. at LeMarchant St.)

Residence life offers a major opportunity to meet many students of diverse backgrounds, beliefs, opinions and cultures. The challenge of group living can be both rewarding and educational.

In order to encourage closer bonds within a fraternal atmosphere, Howe Hall Men's Residence is divided into five houses: Henderson, Studley, Smith, Bronson and Cameron.

Each house has its own identity and yearly elects a President who sits on the Howe Hall Residence Council. Howe Hall provides fully furnished accommodation for 525 male students in single and double rooms. The double rooms constitute 50 per cent of the accommodation and are normally filled by first year students. The majority of other rooms are assigned to undergraduates and for this reason graduate students may

wish to seek accommodation elsewhere. Central dining is provided in two dining rooms. Television lounges, a games room, squash courts, weight room and laundry facilities are readily available. A comprehensive intramural sports program is administered by the Residence Council.

Applications should be submitted early since accommodation is limited.

Direct inquiries to: Patrick J. Donahoe, Dean of Men, Howe Hall, Dalhousie University, Halifax, Nova Scotia B3H 4H5. Phone (902) 424-2107.

Shirreff Hall — Women (located at the corner of South and Oxford Streets)

The residence provides opportunities for students to become a part of a community and to participate in a variety of educational, cultural and recreational experiences. Residential living is an integral part of a student's development, where leadership, responsibility and other pertinent life skills are enhanced. To achieve this, senior students (Residence Assistants, Floor Presidents and Vice-Presidents) are trained to work with the residents in their areas to create a communal environment that contributes to their intellectual, social and personal growth.

There are 3 sections in Shirreff Hall — Old Eddy, New Eddy and Newcombe — which accommodate 444 students in single and double rooms. One-half of the residence is reserved for first-year students and the other half for more senior students in undergraduate programs. First-year students are normally assigned to double rooms. In the centre of the building is the dining room, providing full meal services. The building also contains a library, television lounges, study hall, exercise room, kitchenettes and laundry rooms. Student rooms are furnished as study bedrooms.

A varied and active social and sports program is co-ordinated under the auspices of the self-governing Residence Council.

Early application for all accommodation is advisable. Inquiries should be directed to: Mrs. Pamela Stonehouse, Dean of Women, Shirreff Hall, Dalhousie University, Halifax, Nova Scotia B3H 4J4. Phone (902) 424-2577.

B. Off Campus, University Owned Housing

Co-Ed Residence — Fenwick Place (5599 Fenwick Street, a 15 minute walk from campus-also on City Transit Route).

Fenwick Place is Dalhousie University's 33 storey high-rise apartment residence. Several one and two bedroom apartments, as well as the two bachelor apartments per floor, are rented to married and single students respectively as conventional apartments. These apartments have a full kitchen with refrigerator, stove and ample cupboard space, a full bathroom and balcony. There is also a storage room in every apartment. Except for the stove and refrigerator the above apartments are unfurnished. Heat and hot water are included in the rent but tenants must make their own arrangements for electricity and telephone. Drapery tracks, draperies and carpets are not provided.

The remaining apartments in Fenwick Place are furnished to accommodate students in groups of two, three or four. Priority will be given to those who apply in complete groups of two, three or four. A four person apartment consists of four single bedrooms. A three person apartment consists of one single bedroom and one double (shared) bedroom. A two person apartment consists of two single bedrooms. All apartments have full kitchen with refrigerator and stove, a full bathroom, furnished living room and dining room and a balcony. All beds are single, bunk-style with a folding backboard that allows the bed to be used as a settee. Dresser drawers (built in under the bed), a desk with a bookcase and ample closet space are provided. Please note that meals, maid or

room service are not provided. Dishes, cooking utensils, cleaning equipment and small appliances must all be provided by the students. Students must make their own arrangements for telephone; however electricity is included in the residence fees.

All inquiries and applications should be directed to: Mrs. Janice Irving, Manager, Fenwick Place, 5599 Fenwick Street, Halifax, Nova Scotia B3H 1R2. Phone (902) 424-2075.

Ardmore Hall — Women (1 mile from campus at the corner of North and Oxford Streets on the City Transit Route)

Ardmore Hall is an undergraduate residence with accommodation for 58 students. At least half of the residence is reserved for first year students.

A distinctive feature of Ardmore Hall is that student kitchens are available. A student may either prepare her meals or she may purchase a meal ticket for residence dining halls. Furnishings are similar to Shirreff Hall and the operation of the building is along the same traditional line as Shirreff Hall.

Early application for all accommodation is advisable. Inquiries should be directed to: Mrs. Pamela Stonehouse, Dean of Women, Shirreff Hall, Dalhousie University, Halifax, Nova Scotia B3H 4J4.

The Women's Residence Houses (within walking distance of campus)

The women's residence houses are former family residences and contain a kitchen and lounge. Most houses are reserved for students in the professional schools and graduate studies, but a few houses are available for undergraduate students.

Early application for all accommodation is advisable. Inquiries should be directed to: Mrs. Pamela Stonehouse, Dean of Women, Shirreff Hall, Dalhousie University, Halifax, Nova Scotia B3H 4J4.

In Ardmore Hall, and the Women's Residence Houses, all rooms are furnished as study-bedrooms. Blankets, sheets, pillow and case, hand towels, drapes and bedspreads are provided. Students must supply their own cooking utensils, small appliances, china and cutlery for use in the students kitchens. Each student is responsible for cleaning her room. Common rooms and facilities are cleaned by staff.

Glengary Apartments — Women (situated on Edward Street, 5 minutes walk from main campus)

Glengary Apartments is a furnished building with accommodation for 52 students in 12-4 person apartments and 4 bachelor apartments. It is situated within walking distance of the campus. Preference for the four person apartments will be given to students in their third or second year of an undergraduate program, who apply in groups of four. These apartments contain 2 single rooms, 1 double room, kitchen, living room and bathroom.

Early application for all accommodation is advisable. Inquiries should be directed to: Mrs. Pamela Stonehouse, Dean of Women, Dalhousie University, Halifax, Nova Scotia B3H 4J4.

International Student Housing (5 minutes walk from main campus) (Available only to students arriving in Canada for their first year at Dalhousie).

Dalhousie University provides off-campus housing in three rooming houses. The rooming houses consist mainly of single rooms, with some cooking facilities, but shared bath. The rooms are furnished with a bed, desk, drapes and chairs. Most of the single rooms have a common bath and kitchen area. Paper towels, toilet tissue, garbage bags and light bulbs are supplied, COOKING UTENSILS ARE NOT. Heat, hot water, and electricity are supplied, but tenants must make their own arrangements for telephone. MEALS, MAID OR ROOM SERVICE ARE NOT PROVIDED.

Inquiries should be directed to: Mrs. Janice Irving, Manager Fenwick Place, 5599 Fenwick Street, Halifax, Nova Scotia B3H 1R2.

Apartment Units — Co-Ed (5 minutes walk from main campus)

Dalhousie University offers off campus housing in two apartment buildings on University Avenue consisting of bachelor, one and two bedroom units.

The apartments have a fridge and stove, ample cupboard space, and a full bathroom. The apartments are unfurnished except for the stove and fridge. Heat and hot water are included in the rent but tenants must make their own arrangements for electricity and telephone. Drapery tracks, drapes and carpets are not provided.

Inquiries should be directed to: Mrs. Janice Irving, Manager, Fenwick Place, 5599 Fenwick Street, Halifax, Nova Scotia B3H 1R2.

General Information

All application forms must be accompanied by a deposit in Canadian funds. No applications will be processed until the deposit is received. Deposit amounts will be stated on the application forms.

Students living in residence MUST maintain FULL TIME status at Dalhousie University.

C. Off Campus Listing Service

The University Housing Office on the main floor of the Student Union Building on University Avenue, co-ordinates information on housing, apartments and other accommodation offered for rent in the Halifax-Dartmouth area. Information is posted on notice boards outside the Housing Office and a phone is provided for use in calling prospective landlords. A list of temporary accommodation, as well as a list of rental agents in the area are available through the office. Office hours are sometimes extended during peak periods in late August and early September.

Inquiries should be directed to: Mrs. Sheila Fougere, Manager, Off-Campus Housing, Room 120, Dalhousie Student Union Building, Halifax, Nova Scotia B3H 4J2, (902) 424-3831.

Dalhousie Student Union

President, Student Union: Catherine Blewett

Vice-President: Reza Rizvi

Treasurer: Neil Ferguson

General Manager, Student Union: A.P. Beckett, BCom, CA

The Dalhousie Student Union is an incorporated body comprising all full-time students of Dalhousie University, and other students who have paid their union fees of \$99. The objects of the Union include acting as the official organization of the students of Dalhousie, and promoting activities for the advancement of its members. Government of all extra-curricular student activities is another Union responsibility.

Because of Dalhousie's diverse student population, the central Council has two tiers of student government. Matters of concern only within a particular faculty or degree program are usually dealt with by the relevant major society, while matters of general interest are under the direct control of the Students' Council. Council has given the major societies power to collect compulsory fees.

The Union regulates scores of student organizations, represents students throughout the University and, wherever possible, provides services to students as requested. Through the Union's efforts, students operate their own building, and the Union budget is now in excess of a million dollars.

The Union employs a staff to administer its affairs and to enable the Union to carry out its obligations. Supervision of the staff is generally entrusted to the General Manager, a full-time employee of the Student Union who is responsible to the President and to Council. His job is

largely administrative, but he is often called on for information and advice by the Council or other Union organizations. About eight full-time employees provide continuity and expertise. The Union uses its need for employees as a source of part-time work for students.

Every student has the opportunity to take advantage of the Union's financial, physical and organizational resources. To use that opportunity you should know who represents you on Council and who are the members of the Executive. The Student Council office is located on the second floor of the SUB and is open from 8:30 a.m. to 5:00 p.m. Monday through Friday. Council members have mail boxes located in that office. Union Executive officers also have offices in the SUB. Their office hours are usually posted, or messages can be left for them in Room 222 or at the Enquiry Desk.

Student Clubs and Organizations

Extracurricular activities and organizations at Dalhousie are as varied as the students who take part in them.

Organizations range from small informal groups to large well organized ones; they can be residence-based, within faculties, or university-wide.

Some are decades old with long traditions, others arise and disappear as students' interests change.

The Student Handbook publishes a list of clubs, societies and organizations, and every fall new students are encouraged to select and participate.

Dalhousie Arts Centre

The region's major art gallery and the performing arts centre on the Dalhousie campus are active places indeed. The Dalhousie Art Gallery and the Rebecca Cohn Auditorium attract major exhibitions and regional, national, and international entertainment.

Dalhousie theatre productions and the Dal music department offer outstanding opportunities for student expression and performance.

Athletics

Dal's main building for athletics and recreation is recognized as a superb international-class sport facility. "Dalplex" sports programs welcomes students of all skill levels.

The Division of Athletics and Recreation offers a well-diversified program for every student at Dalhousie University. For those interested in highly competitive sports, there is a broad selection of inter-collegiate activities. For those who enjoy competition and friendly rivalry there is an interfaculty athletic program. For those interested in recreational activities on a casual or club basis opportunities exist.

Dalhousie is a major participant in regional varsity sports through the Association of Atlantic Universities and the Canadian Intercollegiate Athletic Union.

Alumni Association

The Alumni Association is composed of over 31,500 former students of the University. It operates a number of programs, including reunions, branch receptions, sports events, information lectures, and a tutoring service. The association also publishes the *Dalhousie Alumni Magazine* which is sent to all Alumni and friends of the University.

The association sponsors a Student Leadership Conference, Scholarships and bursaries, the Alumni Award for Teaching Excellence and arranges for alumni representation on the Board of Governors.

Canadian Armed Forces

The Regular Officer Training Plan (ROTP), Medical Officer Training Plan (MOTP) and the Dental Officer Training Plan (DOTP) are completely subsidized university plans covering tuition, books, medical services, monthly pay and summer employment for up to four years of undergraduate study. Successful applicants serve as commissioned officers in the Canadian Armed Forces for varying compulsory periods after graduation.

For further information on above plans, contact a Canadian Forces recruiting centre.

Awards Office

Director: G.G. Steedman, BA

The awards office offers information and assistance with respect to Dalhousie Scholarships, Bursaries and Prizes, the Canada Student Loan Program, Provincial Loan and Bursary Programs, and Dalhousie Loan Funds. Students with financial problems are encouraged to ask for advice at our office. Further information may be obtained from the Awards Office, Room 125, Arts & Administration Building. A booklet, Scholarships, Prizes and Financial Aid, is available from the office.

University Regulations

General

1. All students must report their local address while attending the University to the Office of the Registrar, on registration or as soon as possible thereafter. Subsequent changes must be reported promptly.
2. Place of Residence of Students. For the purpose of admission to the University, the place of residence of a student is the place of domicile. This is normally presumed to be the place (country, province, etc.) where the parents' or guardian's home is located. That place remains unchanged unless the Registrar is satisfied that a place of residence is established elsewhere.
3. No person under sixteen years of age is admitted to any class except by special permission of the Senate.
4. All students must agree to obey all the regulations of the University already made or to be made, and pay the required fees and deposits before entering any class or taking any examinations.
5. Students 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. A student is not eligible to register unless all previous accounts, including fees, library fines, and other fines to the University have been paid.
7. Late registration requires the approval of the Dean of the Faculty.
8. Withdrawal: See the individual faculty regulations and the fee section.
9. Tuberculin Test: In the interests of public health in the University, students are encouraged to have a tuberculin test. This is compulsory for Dental, Dental Hygiene and Physiotherapy students. Facilities for testing are arranged by the University Health Services.
10. Transcript of Record: A student may receive only an unofficial transcript. Official transcripts will be sent at a student's request to other universities, or to business organizations, etc. on payment of the required fee. If a student so requests, copies of a medical certificate will be enclosed with the transcripts.
11. The Senate is charged with the internal regulations of the University, including all matters relating to academic affairs and discipline, subject to the approval of the Governors. Within the general policies approved by Senate, academic requirements are administered by the Faculty concerned.
12. When the work of a student becomes unsatisfactory, or a student's attendance is irregular without sufficient reason, the Faculty concerned may require withdrawal from one or more classes, or withdrawal from the Faculty.
13. If a student is required to withdraw from a Faculty because of failure to maintain adequate academic standing, such a student may apply to another

Faculty. However, in assessing the application, previous performance may be taken into consideration.

14. Students whose accounts are delinquent on March 15 will not be eligible for graduation at the May convocation. For October or February graduation the dates are Sept. 1 and Jan. 1 respectively.

Discipline

1. Members of the University, both students and staff, are expected to comply with the general laws of the community, within the University as well as outside it.
2. Alleged breaches of discipline relating to student activities under the supervision of the Dalhousie Student Union are dealt with by the Student Union. Alleged breaches of discipline relating to life in the residences are dealt with by the appropriate Dean or Director of Residence in consultation with the relevant Residence Council. Senate is charged with the authority to deal with cases of alleged academic offences (which is delegated to the Senate Discipline Committee), as well as certain other offences.
3. On report of a serious breach of the law, or a serious academic offence deemed by the President, or in his or her absence by a Vice-President or the Dean of a Faculty, to affect vital University interests, a student involved may be temporarily suspended and denied admission to classes or to the University by the President, Vice-President or Dean, but any suspension shall be reported to the Senate, together with the reasons for it, without delay.
4. No refund of fees will be made to any student required to lose credit for any course taken, required to withdraw or who is suspended or dismissed from any class or any Faculty of the University.

Examples of Academic Offenses

(a) Plagiarism

Plagiarism is considered a serious academic offence which could lead to loss of credit and suspension from the University. Plagiarism may be defined as the presentation by an author of the work of another author, in such a way as to give one's reader reason to think that the other author's work is one's own. A student who is in any doubt as to what constitutes plagiarism is urged to discuss the matter with the instructor concerned *before* completing an assignment.

(b) Irregularities in Admissions Procedures

A member of the University who gains admission or assists any other person in gaining admission by any irregular procedure, for example, by falsifying an academic record or by forging a letter of recommendation or by impersonating any other person, commits an academic offence and is liable to a penalty.

(c) Irregularities in Evaluation Procedures

A member of the University who attempts or who assists any other person in an attempt to obtain, by irregular procedures, academic standing in a course related to any degree, diploma or certificate program, commits an academic offence and is liable to a penalty. Without limiting possible irregularities in evaluation procedures that may be considered by the Senate Discipline Committee, the following examples shall be considered irregular procedures:

- (i) arranging for or availing oneself of the results of any personation at any examination or test, or,
- (ii) attempting to secure or accepting assistance from any other person at any examination or test, or,

(iii) having in one's possession or using any unauthorized material during the time that one is writing any examination or test, or,

(iv) without authorization procuring a copy of an examination, test or topic for an essay or paper, or,

(v) in the absence of any enabling statement by the Faculty member in charge of that course, submitting any thesis, essay, or paper for academic credit when one is not the sole author, or,

(vi) without authorization submitting any thesis, essay or term paper that has been accepted in one course for academic credit in any other course in any degree, diploma or certificate program.

Senate Discipline Committee

1. Composition

Academic Offences are dealt with by the Senate Discipline Committee, which consists of five members, three of which are members of the Senate and two of which are students.

2. Terms of Reference

(a) The Senate Discipline Committee is vested with original jurisdiction to consider all complaints or allegations respecting offences or irregularities of an academic nature, including those relating to admissions procedures and evaluation procedures, and to impose penalties in cases where the Committee finds an offence or irregularity has occurred.

(b) The Senate Discipline Committee shall assume jurisdiction when a complaint or allegation respecting offences or irregularities of an academic nature are brought to its attention by the Secretary of Senate.

(c) The Senate Discipline Committee shall report its findings and any penalty imposed to the Secretary of the Senate. The Secretary of the Senate shall forward a copy of the report to any member of the University community whom the Senate Discipline Committee has found to have committed an offence or irregularity and if the member concerned be other than a student a copy shall also be sent to the Vice-President (Academic).

(d) If the member of the University found to have committed an offence or irregularity is a student, he may appeal to Senate any finding or any penalty imposed by the Senate Discipline Committee by advising the Secretary of the Senate in writing within 30 days of receipt of the report by the student.

(e) The Senate Discipline Committee, when it finds that a member of the University who is a student has committed an academic offence or irregularity may impose one or more of the following penalties:

(i) loss of all credit for any academic work done during the year in which the offence occurred;

(ii) suspension of rights to attend the University for a specified period;

(iii) dismissal from the University;

(iv) such lesser penalty as the Committee deems appropriate where mitigating circumstances exist.

Definitions

Full-time Students: those registered for three-full classes or more, or the equivalent of three half credit classes or more in either first or second term.

Graduate Students: students who are enrolled in the Faculty of Graduate Studies.

Matriculation Standing: Senior Matriculation designates the level of studies attained by students who have successfully completed Grade XII in public high school in Nova Scotia or its equivalent elsewhere.

No-degree Students: students who are not candidates for a degree or diploma but who wish to take one or more university classes which may be allowed for credit. This is not the same as auditing a class. No-degree students must satisfy normal admission requirements.

Part-time Students: students registered for fewer than three full-credit classes or the equivalent of three half-credit classes in either first term or second term.

A full credit class is equivalent to 6 credit hours.

Undergraduates: students who are candidates for an undergraduate qualification.

Fees

Full-time Students

For fee purposes, full-time undergraduate students are those registered for fall and winter terms for more than three full credits, or if registered for only one term, for more than three one-half credits. (For other purposes, there is another definition.) Students other than graduate students may be registered full-time in one term and part-time in the other.

Fees 1985-86

The 1986-87 fee schedule was not available at the time of printing this calendar. It will be available from the Student Accounts Office by June 86.

Fees are due and payable at registration but if preferred, those registered for fall and winter terms may pay in two installments, the first due by September 30, 1986, the second by January 25, 1987.

Students whose accounts are more than 30 days in arrears are considered financially dismissed from the University.

To be reinstated the student must pay the arrears in full, the interest on the arrears and a \$50.00 Reinstatement fee.

Please note the fee reduction if paid in full before August 31, 1986.

Foreign Students

Students registering at Dalhousie who are not Canadian citizens or permanent residents are required to pay an additional fee of \$1700.00 for new students or new to program and \$1435.00 for returning students in the same program, if registered on a full-time basis, or if registered part-time, a proportionate fee related to their part-time studies. (Any assessed differential must be paid in full with the first installment, and is payable each session the student attends as a visa student).

Dalplex

Membership at Dalplex is included in the University fee for all full-time students at Dalhousie and all part-time students at Dalhousie taking three full credit courses. Membership in Dalplex for ALL other part-time students at Dalhousie may be obtained at the office of Dalplex at prevailing rates.

Audit Students

Full time students may audit classes (where this is permitted), which are related to their programs without additional fees. Part-time students who wish to audit classes are required to register and pay fees at registration on the following basis:

One-half credit class	\$78.00
One full credit class	\$156.00

A student registered to audit a class who during the session wishes to change to registration for credit must receive approval from the Registrar and pay the difference in class fees plus a transfer fee of \$25.00. This must be done before the last date for adding classes as given in the Almanac. The same deadline applies for a change from credit to audit.

Summer Session Students

Students registered for the first or second summer session are expected to register on the specified registration dates, otherwise a late

registration fee must be paid. For full information, see the Summer School Calendar, available from the Director of the Summer School.

Regulations for Payment of Fees

Fees must be paid in Canadian funds by cash or negotiable cheque. If payment is by cheque and returned by the bank as non-negotiable, the account will be considered unpaid and there will be an additional fee of \$15.00. If the cheque was to cover the first payment on tuition, the student will not be considered registered and, if applicable, the late fee for registration will apply.

Application Fee

An application fee of \$15.00 is required with the application form submitted by any student for any program except one in which the applicant has been previously enrolled. If the fee is paid for a given session, and the applicant does not attend, whether accepted or not accepted, and an application is made for a subsequent session, the fee is again payable. Application fees are not refundable and are not applied as a credit to class fees.

Admission Deposit

A deposit of \$100.00 is required by all new students (except in Law, where the required deposit is \$200.00) within three weeks of receipt of an offer of a place at Dalhousie. In some programs there is a partial refund for students who notify the Registrar's Office in writing of cancellation of their application by August 1. There is no refund for limited enrolment programs. Where fees in full are payable by a government or other agency, any deposit paid by an individual will be refunded to the student by November 15, unless the account is not paid by November 1. In this case the refund will be made as soon as payment is received.

Registration Fees

All students are expected to register on or before the specified dates. To complete registration a student is required to complete the registration process, including any necessary class selection or approval, and to pay a minimum fee of \$50.00 unless a deposit of at least this amount has been made. This payment must be made by all students including those on scholarships, fellowships, student loans, or whose fees are to be paid by external agencies, and commits the student to the payment of the balance of fees unless formal action to withdraw is taken in writing at the Registrar's office.

Late Registration

Students are expected to register on or before the dates specified in the almanac.

Late registration requires the approval of the Dean of Faculty.

The late fee is \$50.00 to September 30, \$100.00 thereafter.

Note 1: For those registering for the winter term only, read Jan. 30 instead of Sept. 30.

Note 2: For summer school registration, use the summer school calendar, which may be obtained from the Office of the Registrar or the Office of Continuing Education.

Fees 1985-86

	University Fee	Student Union Fee ¹	Society Fee	TOTAL	If paid by TWO installments		
					If paid before Aug. 31, 1985 pay only	At Registration	Balance Jan. 25/86
Arts & Science	1,466.00	99.00	5.00	1,570.00	1,541.00	1,000.00	570.00
King's (Payable to Dalhousie)	1,466.00		5.00	1,471.00	1,422.00	1,000.00	471.00
Engineering	1,550.00	99.00	10.00	1,659.00	1,628.00	1,000.00	659.00
Health Professions							
Nursing	1,550.00	99.00	15.00	1,664.00	1,633.00	1,000.00	664.00
Outpost nursing, 2nd year	1,550.00		15.00	1,565.00	1,534.00	1,000.00	565.00
Pharmacy	1,550.00	99.00	31.50	1,680.50	1,649.50	1,000.00	680.50
Clinical Residence — Pharmacy	374.00	—	—	374.00	374.00	374.00	—
Phys. Ed., Health Ed., Rec.	1,550.00	99.00	10.00	1,659.00	1,628.00	1,000.00	659.00
Physio./Occ. Therapy	1,550.00	99.00	13.00	1,662.00	1,631.00	1,000.00	662.00
Management Studies							
BComm	1,550.00 ¹	99.00	30.00	1,679.00	1,648.00	1,000.00	679.00
CPA; BSW	1,466.00	99.00	10.00	1,575.00	1,546.00	1,000.00	575.00
Graduate Studies							
Full time	1,570.00	99.00	20.00	1,689.00	1,658.00	1,150.00	539.00
Full time MBA	1,570.00	99.00	35.00	1,704.00	1,673.00	1,150.00	554.00
Part-time for Degree	541.00	40.00	10.00	591.00	580.00	390.00	201.00
Thesis-only Full-time	244.00	99.00	20.00	363.00	363.00	363.00	—
Thesis-only Part-time	244.00	29.50	10.00	303.50	303.50	303.50	—
MSc Dentistry-Oral Surgery	1,825.00	99.00	20.00	1,799.00	1,765.00	1,150.00	794.00
LLM (Full-time); JSD	1,680.00	99.00	15.00	1,794.00	1,760.00	1,150.00	644.00
LLM (Part-time for Degree)	840.00	49.50	10.00	899.50	882.50	600.00	299.50
Law	1,680.00	99.00	15.00	1,794.00	1,760.00	1,150.00	644.00
Medicine							
MD	1,825.00	99.00	19.00	1,943.00	1,906.00	1,150.00	793.00
Postgraduate, Interns, Residents	374.00	—	—	374.00	374.00	374.00	—
Dentistry							
DDS	1,825.00	99.00	150.00	2,074.00	2,037.00	1,150.00	924.00
DDS Advanced Standing ²	3,650.00	99.00	150.00	3,899.00	3,826.00	2,300.00	1,599.00
Dental Hygiene	1,550.00	99.00	10.00	1,659.00	1,628.00	1,000.00	659.00
Dental Hygiene Advanced Standing ²	3,100.00	99.00	10.00	3,209.00	3,147.00	2,000.00	1,209.00
Postgraduate Periodontics	1,825.00	99.00	150.00	2,074.00	2,037.00	1,150.00	924.00
Full-time: one term only							
more than 3 one-half credits	728.00	49.50	—	777.50	777.50	777.50	—
Part-time: session and term³							
All Faculties per course							
1 Full-credit Course	312.00	20.00	—	332.00	326.00	200.00	132.00
2 Full-credit Courses	604.00	40.00	—	644.00	632.00	400.00	244.00
3 Full-credit Courses	896.00	99.00	4	995.00 +	977.00 +	625.00 +	370.00
½-credit Course	156.00	10.00	—	166.00	166.00	166.00	—
⅓-credit Course	104.00	10.00	—	114.00	114.00	114.00	—
Audit: session and term⁵							
All Faculties per course							
1 Full Audit Course	156.00	—	—	156.00	156.00	156.00	—
½ Course for Audit	78.00	—	—	78.00	78.00	78.00	—
⅓ Course for Audit	52.00	—	—	52.00	52.00	52.00	—

¹ Charges include Year Book in graduating year.

² Candidates with advanced standing admitted to special programs in DDS and DENTAL HYGIENE to meet Provincial Professional Qualifications, are required to pay double the University fee paid by students in regular programs.

³ Registered for a total of three (3) credits, or less, for session; if three one-half credits, or less for term.

⁴ Society Fee for the appropriate faculty is an additional charge. (+)

⁵ Course not for credit, for interest only. If during session a change from audit to credit is desired, an additional charge of \$25.00 plus the difference in fee for credit course is charged.

Membership at Dalplex is included in the University fee for all full-time students at Dalhousie and all part-time students at Dalhousie taking three full-credit courses. Membership in Dalplex for all other part-time students at Dalhousie may be obtained at the office of the Dalplex at prevailing rates.

Foreign Students: (additional charge) Visa Students (those who are not Canadian citizens or permanent residents) are required to pay a Differential Fee of \$1,435.00 for returning students in the same program, 1,700.00 for new students or students new to program. There is a proportionate charge for part-time. The differential fee is payable each year with the payment of the first installment of fees.

Additional Information About Payment of Fees

Bills for fees will not be issued. The receipt issued at registration will show the balance outstanding.

Students planning to pay the first installment of fees from a Canada Student Loan should apply to their Province as early as possible so that funds will be available at registration.

Scholarships or bursaries paid by or through Dalhousie University will be applied to fees. Students must produce at registration adequate documentary evidence of entitlement to the sums claimed under the award. If fees are to be paid by a government or other agency, a signed statement from the agency must be presented at registration. (All such students are required to pay the appropriate deposit on registration.)

Fees cannot be deducted from salaries paid to students who are employed by Dalhousie University.

Delinquent Accounts

Compound interest will be charged on any balance of fees outstanding after the registration date except where payment of a second installment is permitted. When fees are paid within two weeks of the last date for regular registration, interest charges will be foregone. Students whose accounts are more than 30 days in arrears are considered financially dismissed from the University. The student will be reinstated upon payment of the arrears, the arrears interest and a \$50.00 reinstatement fee.

Fees Deductible For Income Tax

The amount of fees constituting an income tax exemption for the student is calculated by deducting from the total charge; (1) the portion of the Student Union Fee for operating expenses of the Union as applicable, and (2) the Society Fee. Fees may be claimed as a deduction only by the student. A special certificate for income tax purposes will be issued on request to the Student Accounts Office in February of each year.

Refund of Fees

No refund is made for 30 days when payment is made by personal cheque.

In any program in which the registration is limited, the first installment of fees is not refundable except on compassionate grounds (e.g. illness). In other programs refunds may be made under certain conditions set out below. No refunds or rebates of charges for the session will be made to students withdrawing after the end of January.

Non-attendance at classes does not constitute withdrawal.

A student who has registered and wishes to withdraw must complete the necessary formalities through the Registrar's office in writing before becoming entitled to any refund or exemption from unpaid fees. Retroactive withdrawals are not permitted.

A student who has paid an admission deposit and *cancels* that application before *August 1*, may be entitled to a refund of 75%, depending on the program. The programs for which refunds are given are in Arts and Science and Management Studies.

A student *withdrawing* within two weeks of commencement of classes will be charged a registration fee of only \$25.00.

A student withdrawing after two weeks of the date of commencement of classes will be charged the incidental fees in full and may receive a refund (or be exempt from unpaid fees as the case may be) of the balance on a proportional basis, calculated in monthly units; a full charge will be made for the month in which the withdrawal is effective, including the month of December.

A student withdrawing in January will be charged the full first installment of fees.

A student changing before February 1 from full-time to part-time status, with the approval of the Registrar, will be eligible for an adjustment in fees for the remainder of the session.

A student registered for the fall term only who withdraws in September will be charged a registration fee of only \$25.00. For withdrawal on any date in the month of October the charge is one-third of the university fee (plus incidental fee in full, where applicable). The full fee is charged if a student withdraws after October 31.

A student registered for the winter term only, who withdraws up to January 15 will be charged a registration fee of only \$25.00. From January 15 to February 15 the charge is one-third of the university fee (plus Incidental Fee if applicable). The Full fee is charged if a student withdraws after February 15.

A student who is dismissed from the University for any reason will not be entitled to a refund of fees.

Application for a refund or adjustment should be made to the Student Accounts Office after the approval of the Registrar has been obtained.

Other Charges

Identification Cards

All new, full and part-time students may obtain identification cards upon registration and payment of proper fees. ID cards for those who register early for the regular academic year are issued by the ID Office (located in the central foyer of the Arts and Administration Building basement) starting on the first weekday in June. For either summer school session, ID cards are issued starting two weeks prior to the commencement of classes. An ID card will only be issued upon presentation of the appropriate requisition form, authorized by both the Registrar's Office and the Student Accounts Office. If a card is lost, authorization for a replacement may be obtained from the Office of the Registrar. A fee of \$12.00 is charged for all replacement ID cards except those expressly directed by the University. Regular academic year ID cards remain valid until the beginning of the following academic year (including summer session. (ID cards issued specifically for a summer session expire at the conclusion of that session.) At the commencement of subsequent consecutive years, validation stickers are affixed to the "expired" ID card. Should ID cards not be available for validation, a new one will be issued and the student charged for the replacement (currently \$12.00). A student who also becomes an employee of Dalhousie University will have a sticker showing the employee number, placed on the student ID card. Similarly, a Dalhousie University employee may have a sticker showing the student number placed on the employee ID card when becoming a student.

Laboratory Charge

No laboratory deposit is required. Students will be charged for careless or willful damage.

Fees for Supplemental and Special Examinations

For supplemental and special examinations the fee is \$25.00 per examination. There is an additional fee of \$25.00 if an examination is written at an outside centre. The fee will be forfeited unless application for refund is made on or before July 31, or in the case of February supplemental examination, January 31.

The fee for reassessment of a class grade (where this is permitted) is \$3.00.

Degree in Absentia

Any graduating student who is unable to appear at the convocation is expected to notify the Registrar in writing prior to May 4, or October 15 for Fall convocation, giving the address to which the diploma is to be

mailed. In any case where notification is not received by the required date, and a student does not appear at the convocation, there will be a fee of \$20.00.

Transcripts

Transcripts, official or unofficial, will be issued only on the request of the student concerned. Official transcripts will be sent only to other universities, prospective employers, etc. The charge is \$3.00 for the first copy, \$0.50 for each additional copy ordered at the same time for the same address. Transcripts will not be issued if any account with the university is delinquent.

Residence Charges

Applications for accommodation in all residences are accepted on the understanding that the student will remain for the whole academic session.

When students, who have chosen to live in residence and succeeded in securing a room, withdraw from residence before the end of the school year, there are serious financial penalties. One month's written notice must be given to the Dean or Manager. Complete information on withdrawal from residence is available from the residence Dean, or Manager. No refund will be made to any resident who is dismissed for misconduct. Discretionary power in exceptional circumstances remains with the Assistant Vice-President University Services. Confirmation of accommodation will not be granted until the student has been accepted by the University for the coming session and the \$100.00 residence deposit has been received.

Deposits may be made by cheque, bank draft or money order in Canadian funds and payable to Dalhousie University. No reservations will be held on post-dated or "NSF" cheques. Deposits cannot be deducted from scholarships, fellowships or similar awards.

Payment of Residence Charges

Payment may be made in full at registration or, for an extra charge of \$10.00, in two installments as per rate schedule. Scholarships may be applied to residence charges only after tuition fees for the full session are paid. The first installment must be paid in full by the date of registration. A penalty is imposed for late payment, of \$5.00 per day, to a maximum of \$100.00, commencing on the first business day following

registration. To all accounts outstanding after September 30 an interest of 1.33% per month (16% per annum) will be charged. On second installments outstanding after February 1 interest of 1.33% per month (16% per annum) will be charged. The interest rate may change from time to time without notice if the cost of money to the University varies. The student will not be permitted to register for another session until all accounts are paid in full. Students whose accounts are in arrears more than 30 days are considered financially dismissed from the University.

Key and Caution Deposits

Key and caution deposits may be charged before admission to residence.

The key deposit is refundable when the keys are returned to the Dean or Manager. The credit balance of the caution deposit will be refunded as soon as possible after the end of the academic session.

Regulations and Additional Charges

The complete session is defined as being from the Wednesday before classes begin in the Arts and Science Faculty to the last regularly scheduled examinations in the Faculty of Arts and Science.

No reduction in board charge can be made for meals not taken, except that a rebate of \$20.00 per week may be considered in case of illness or other cause necessitating absence of four weeks or more.

Residence students may apply to the Dean or Manager for permission to stay in residence over the Christmas holidays, if they are unable to return home due to the distance involved.

In all other cases, an additional fee is payable to all residents who are registered in a Faculty where the academic session commences before or continues after the session of the Faculty of Arts and Science. Special arrangements are to be made with the Dean or Manager by residence students for accommodation for periods prior to or following the session as defined above. The charge for such accommodation is as follows:

Residence students before or after current session, all residences
 Room per night: \$13.00
 Room per week: \$55.00

Non-residence students may be accommodated for temporary periods at the same rates, if accommodation is available.

Residence Fees and Meal Charges

Period September 5, 1985, to the day in April after the last examination in the Faculty of Arts and Science (exclusive of Christmas vacation)

SUBJECT TO CHANGE

	Total	Prepaid Deposit	In Full At Reg.	Payable At Reg.	Balance Jan. 24 ⁸
Howe Hall¹					
Single Room	\$3,380.00	\$100.00	\$3,280.00	\$1,700.00	\$1,590.00
Double Room	3,100.00	100.00	3,000.00	1,700.00	1,310.00
Shirreff Hall²					
Single Room	3,350.00	100.00	3,250.00	1,700.00	1,560.00
Double Room	3,160.00	100.00	3,060.00	1,700.00	1,370.00
Ardmore Hall³					
Single Room	1,776.00	100.00	1,676.00	900.00	786.00
Double Room	1,565.00	100.00	1,465.00	900.00	575.00
Residence Houses⁴					
Single Room	1,950.00	100.00	1,850.00	950.00	910.00
Double Room	1,700.00	100.00	1,600.00	950.00	660.00
Glengary Apartments⁵					
Single Room	2,000.00	100.00	1,900.00	1,000.00	910.00
Double Room	1,765.00	100.00	1,665.00	1,000.00	675.00
Bachelor Apartment	2,745.00	100.00	2,645.00	1,350.00	1,305.00
Fenwick Place^{6,7}					
Student shared rates:					
2 person	2,400.00	100.00	2,300.00	1,200.00	1,100.00
3 person	1,888.00	100.00	1,788.00	950.00	838.00
4 person	1,952.00	100.00	1,852.00	1,000.00	852.00
Meals Only					
Special rates for session:					
3 meals per day	1,450.00				
2 meals per day	1,400.00				

¹ Charges include residence membership fee of \$25.00, and key deposit of \$6.00.

² Charges include residence membership fee of \$15.00, and key deposit of \$2.00.

³ Charges include residence membership fee of \$10.00, and key deposit of \$2.00.

⁴ Charges include key deposit of \$2.00.

⁵ Charges include caution deposit of \$50.00.

⁶ The \$100.00 prepaid deposit is a damage deposit — see application for details.

⁷ The \$10.00 service charge is not applicable.

⁸ Charges include service charge of \$10.00.

To
The Honourable the
Representatives of the
Province of Nova Scotia
general assembly convened.

The petition of the subscribers the
Faculty of Medicine in connection
with Dalhousie College

Humbly Sheweth

That your petitioners have ascertained that
from sixty to seventy five students leave the Maritime Provinces
yearly to receive a Medical education, there being no institution in the
said Provinces at which the education they require can be obtained.

That to remedy this pressing want your petitioners
were appointed a Faculty of Medicine in connection with
Dalhousie College and opened classes in that institution in the spring
of the current year when a regular course of lectures was delivered in
Chemistry Anatomy Physiology Materia Medica and Obstetrics.

That to carry out their plans successfully an Act of
the Province, in furtherance of their objects and the grant of a small
sum to meet the necessary outlay for rent of rooms attendance
plates for illustration &c are indispensably requisite.

Your Petitioners therefore humbly pray your
Honourable House to take the premises into favourable consideration
and to vouchsafe them such Legislation and such a grant
from the Provincial funds as in your wisdom
may seem meet

Your Petitioners as in duty bound
will ever pray

James Ross D.D. Principal

William J. Almon M.D. Prest. and Lect. on Obstcs.

Alex. P. Reid M.D., L.R.C.S. Edin. Dean and Lecturer on
Physiology

A. Hattie M.D. Lecturer on Obstetrics

A.H. Woodill M.D. Lect. on Materia Medica

Edwd. Farrell M.D. Lecturer on Anatomy

George Lawson, LL.D., Professor of Chemistry

The prayer of this petition is
respectfully and warmly recommended
by the Governors of Dalhousie College of the
favourable attention of the Legislature.

Halifax 20 Aug 1868

W. Young
Chairman

James Thomson
Secretary
Ritchie

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W. Young

Chairman

James Thomson

Secretary

Faculty of Medicine

General Information

The Faculty of Medicine of Dalhousie University was organized in 1868, but medical teaching was carried out by the independent Halifax Medical College from 1875 to 1911, when the Faculty of Medicine was re-established by the University.

The Faculty provides a complete medical training leading to the degree of MD. Nationally approved preregistration clinical training and specialist medical training are provided in association with affiliated hospitals. The Division of Continuing Medical Education takes responsibility for the continuing education of the practitioners of the three Maritime Provinces.

Instruction in the preclinical sciences and in some of the clinical areas for students in the Faculty of Dentistry, the Faculty of Arts and Science and Faculty of Health Professions is a major responsibility of the Faculty of Medicine.

Extensive additional responsibilities are undertaken in the fields of research and clinical investigation in all departments of the Faculty.

In association with the Faculty of Graduate Studies courses leading to the degrees of MSc or PhD are given.

Research in the Faculty is supported principally by grants-in-aid to individual Faculty members from national granting bodies including the Medical Research Council of Canada, Department of National Health and Welfare, National Cancer Institute of Canada, Defence Research Board, Canadian Heart Foundation and others. Substantial additional help is made available through endowments to the University from the estates of the Hon. J.C. Tory and of Gladys Marie Osman.

Each year the Faculty of Medicine calls for applications from first and second year medical students for summer research scholarships. The amount of each scholarship is \$3,150 and runs from June until the end of August. Funding for these summer research projects is mainly from the Medical Research Council and from individual departments within the Faculty of Medicine. Outside funds are also available from the following: The Nova Scotia Division of Canadian Diabetic Association, Centracare Saint John Inc., Canadian Cystic Fibrosis, Kidney Foundation of Canada, Canadian Liver Foundation, Merck Frosst Laboratories, Homewood Sanitarium and CIBA-GEIGY Limited. Students are encouraged to make individual approaches to departments in which they might wish to work or to individual Faculty members both in preclinical and clinical departments.

A Faculty of Medicine Research and Development Foundation was formed in 1979 which has as its objective the support of research and related activities in the Faculty of Medicine and its affiliated teaching hospitals.

The Dalhousie Medical Research foundation also awards studentships. The award is open to any first year medical student. The Foundation supports supervised research experience for a limited number of students from the end of the first to the end of the third year of medical school. The Foundation wishes to encourage highly qualified and motivated medical students to consider a career in biomedical or behavioral research. There are four awards made each year. Current value is \$10,000 per studentship. (\$5,000 per year for two years). *The W. Alan Curry Studentships* which is similar to the Foundation Studentships but awarded every second year to a student engaged in research in the Department of Surgery or the Department of Anatomy are also available.

The Faculty is fully approved by the Association of Canadian Medical Colleges, the Association of American Medical Colleges and the American Medical Association.

Medical Buildings and Hospitals

The Faculty of Medicine, situated on the Carleton Campus, is mainly housed in the Sir Charles Tupper Medical Building and in the adjoining Clinical Research Centre. In close association are a number of affiliated institutions. In the immediate vicinity are the Victoria General Hospital, Izaak Walton Killam Hospital for Children, Grace Maternity Hospital and the Nova Scotia Rehabilitation Centre, Camp Hill Hospital, the Halifax Infirmary, the Canadian Forces Hospital (Department of National Defence). The Nova Scotia Hospital in Dartmouth, the Saint John Regional Hospital and Centracare Hospital in Saint John, New Brunswick are affiliated teaching hospitals. In addition a number of other hospitals in New Brunswick, Nova Scotia and Prince Edward Island participate in the Dalhousie Integrated Intern Training Program.

Sir Charles Tupper Medical Building

The Sir Charles Tupper Medical Building was completed in the summer of 1967. This 15-storey structure, the chief Centennial Project of the Government of Nova Scotia, is named after Doctor (Sir) Charles Tupper (1821-1915), one of the founders of the Faculty of Medicine, a Father of Confederation, and the only physician to have been Prime Minister of Canada. In the Tupper Building are housed the Kellogg Health Sciences Library; the teaching and research facilities of the Departments of Anatomy, Biochemistry, Physiology and Biophysics, and Pharmacology; research facilities for the Departments of Microbiology and Pathology and for graduate and undergraduate teaching of science students; research laboratories for the clinical departments; study, recreational and dining areas for medical students; offices for the preclinical staff; the office of the Dean of Medicine and of other administrative staff of the Faculty; a modern centre for the provision, care, and use of experimental animals; special facilities for audio-visual communication, electron microscopy, electronic and mechanical assembly and repair.

Dalhousie Medical Alumni Association

The Dalhousie Medical Alumni Association is composed of over 3,000 former students of the University and Associate members. It operates a number of programs, including class reunions, receptions, assists with fund raising drives as well as providing information about the School to medical alumni, and as a resource centre to all medical students and alumni. The office is situated on the first floor of the Sir Charles Tupper Medical Building in space provided by the Dean of Medicine and furnished by the Class of 1961.

W.K. Kellogg Health Sciences Library

The Library occupies part of the first and all of the second floors of the Tupper Building. The library has a collection of some 110,000 volumes and receives approximately 3300 current serials. The collection also includes over 3000 audio visual programs in many formats including videotapes, audiotapes and slidetape kits as well as appropriate playback equipment. The Library provides materials in the basic sciences as well as medicine, dentistry, nursing, physiotherapy, pharmacy and communications disorders.

The Kellogg Library was made possible by the generous gift, in 1965, of \$420,000 from the W.K. Kellogg Foundation of Battle Creek, Michigan. Other benefactors include The Medical Society of Nova Scotia which makes an annual contribution to maintain the Cogswell Collection and the Provincial Medical Board of Nova Scotia which provides an annual grant in honour of the late Dr. John George MacDougall who was, for many years, President of the Board and a member of the staff of the Faculty of Medicine.

Clinical Research Centre

The Centre (formerly Dalhousie Public Health Clinic), constructed in 1923, a gift of the Rockefeller Foundation, was originally built to house the outpatient services of the clinical departments. The Centre is now physically connected to the Tupper Building and, together with a block of space in that building, houses the research units of the clinical departments of the Faculty. The offices of the Department of Preventive Medicine are in the Clinical Research Centre.

Victoria General Hospital

The largest teaching hospital, the Victoria General Hospital, is owned and operated by the Province of Nova Scotia. It has a capacity of 870 beds, together with an outpatient department and an emergency service. The Departments of Pathology and Microbiology are housed, in part, in the D.J. Mackenzie Building of the hospital. This building houses the clinical service laboratories of Clinical Chemistry, Microbiology, Histology, Anatomical Pathology and Cytology. The offices of the University Departments of Anesthesia, Medicine, Neurosurgery, Diagnostic Radiology, Radiation Oncology, Surgery and Urology are located in the Victoria General Hospital. Adjoining the hospital is the R.C. Dickson Ambulatory Care Centre and the Cancer Treatment and Research Foundation of Nova Scotia.

Izaak Walton Killam Hospital for Children

Teaching in Pediatrics is carried on in the Izaak Walton Killam Hospital for Children, opened in 1970. This hospital has a capacity of 324 beds. The office of the University Department of Pediatrics is here.

Grace Maternity Hospital

The chief teaching centre for Obstetrics is the Grace Maternity Hospital, owned and operated by the Salvation Army. It has a capacity of 110 beds, most of which are housed in sections opened in 1957 and 1962. The office of the University Department of Obstetrics and Gynecology is located in this hospital.

Nova Scotia Rehabilitation Centre

A new hospital facility containing 50 hospital beds as well as outpatient facilities was opened in 1977.

Camp Hill Hospital

This hospital, now owned and operated by the Province of Nova Scotia, has a capacity of 397 beds for active treatment and also long term geriatric care. The Abbie Lane Building contains inpatient and outpatient services for Psychiatry including the office of the University Department.

Halifax Infirmary

The Halifax Infirmary, recently enlarged, is owned and operated by the Province of Nova Scotia. It has a bed capacity of 480. The office of the University Departments of Ophthalmology and Otolaryngology are located in this hospital.

Canadian Forces Hospital

The Canadian Forces Hospital, operated by the Department of National Defense at C.F.B. Stadacona in Halifax, has 161 beds and became associated with Dalhousie in 1961.

Family Medicine Centres

The first of these was opened in 1975 and situated on the ground floor of Fenwick Towers, this modern ambulatory clinical facility houses the administrative, clinical and educational resources of the Department of Family Medicine. The Cowie Hill Family Medical Centre is situated on the ground floor of the Top of the Mountain building in Spryfield. The Halifax Infirmary Department of Family Medicine is situated in Gerard

Hall, Halifax Infirmary. These are model Family Practices with a prime teaching function.

Nova Scotia Hospital

This is a provincially operated psychiatric hospital in Dartmouth (across the harbour from Halifax) where interns and residents receive clinical training in psychiatry.

The Saint John Regional Hospital (Central Division)

This hospital, located in Saint John, New Brunswick, is an affiliated teaching hospital with 418 beds. Interns and residents receive clinical training in a number of Departments. Centracare Hospital in Saint John, New Brunswick, is an affiliated psychiatric hospital.

Degree

The Degree conferred by the University is Doctor of Medicine (MD). The course extends over four years.

Academic Year

The academic year for the first three years of the medical course begins early in September and extends to the end of May. The fourth year is a Clinical Clerkship beginning early in May and ending late in April. The University Academic Calendar is to be consulted each year for exact dates.

Faculty Regulations

1. Medical students are required to adhere to the general University Regulations. Clinical clerks, interns and residents will be subject to the rules and regulations of the hospital department to which they are assigned concerning hours of duty, holidays, etc. Patient care responsibilities override University and statutory holidays.
2. Medical students must observe the regulations of the hospitals relative to students and student interns, and any violation of such regulations will be dealt with as if a University regulation were violated.
3. Classes begin on the day following the regular registration date, and late registration is not permitted without the prior approval of the Dean.
4. All University regulations respecting fees apply to the Faculty of Medicine. In addition, students who have not paid their annual university tuition fees in full by the end of January will be suspended from the Faculty. If the fees are not paid by February 15, the registration of the student for the session will be cancelled. (In this connection it should be noted that the Awards Office and the Office of the Dean of Medicine always give consideration to the provision of bursaries and loans for those in genuine financial need but application for such aid must be anticipated by the student.)
5. Such instruments and uniforms as students may be required to obtain shall be of a design approved by the Faculty.
6. Subject to University regulations for the admission of students, special students may be admitted to classes in the Faculty of Medicine but their attendance is not recognized as a qualification toward the MD degree.

The Doctor John Stewart Memorial Lecture

Each year the Provincial Medical Board of Nova Scotia enables the University to honour the memory of John Stewart, CBE, MB, CM (Edinburgh), LLD (Edinburgh, Dalhousie and McGill), FRCS (Edinburgh), by presenting a lecture by a notable figure in the world of medicine. Dr. Stewart, Nova Scotia's outstanding surgeon, an associate of Lord Lister,

was President of the Provincial Medical Board from 1906 to 1916, President of the Canadian Medical Association in 1905, Professor of Surgery and, from 1919 to 1932, Dean of the Faculty of Medicine at Dalhousie. The lecture is presented as a part of the annual Dalhousie Refresher Course.

Dalhousie Medical Students' Society

All medical students are members of this Society, which exists to promote the welfare and general interests of the medical undergraduates, including social and sports activities, relations with the Faculty and with the Students' Union of the University. The Society presents honours and awards to outstanding medical students.

The president and vice-president of the Medical Students' Society, the presidents of the four undergraduate classes and the president of the Interns and Residents Association of Nova Scotia are full members of Faculty. The Presidents of the Medical Students' Society and the Interns and Residents Association of Nova Scotia are ex-officio members of Faculty Council. Medical students are members of the following Faculty committees: Medical Education, Student Financial Aid, Admissions, Library and Intern. Regular monthly meetings are held by the Dean and associates with the class presidents and educational representatives as well as the president of the Medical Students' Society.

Alpha Omega Alpha Honor Medical Society

Founded to foster the highest standards of professional idealism and scholarship, this honour student organization has chapters in the principal medical schools of Canada and the United States. Students are elected to membership in their third or fourth years and not more than one-sixth of the members of any class may be elected. Entrance is dependent on character, personality, and scholarship. The activities of Alpha Omega Alpha include bimonthly meetings, for which papers are prepared and presented by undergraduate members, and an annual banquet at which a distinguished speaker delivers an address.

Medical Undergraduate Student Adviser Program

Director: Prof. June Penney, Department of Anatomy, Sir Charles Tupper Medical Building Te. No. 424-3400 or 424-2051 (Sect.)

A small group of pre-clinical and clinical faculty members are available to advise medical undergraduate students on academic and non-academic/personal matters relating to their progress through medical school. All communications are held in the strictest confidence and the program is independent of the Dean's Office although students may be advised, from time to time, to consult with the Assistant Dean of Student Affairs. Individual student advisers or the Director are not intended to represent unconditional student advocates at the formal level but to genuinely assist students on a personal basis with their individual problems whether they be academic (study habits, information overload, lack of comprehension, etc.) or personal. Students wishing to avail themselves of this service on a confidential basis should contact the Director who will arrange for the matching of a mutually acceptable adviser depending upon the nature of the problem. Early contact with this program is recommended to ensure solution of problems before they become critical.

Admissions

Admission to First Year

1. Application and Selection: Entrance to the Faculty of Medicine is limited to 96 students annually. Successful candidates are selected by the Admissions Committee of the Faculty of Medicine, whose decision is final.

The application for admission is to be made only on the regular application form of the Faculty of Medicine which may be obtained from

the Admissions Office, Dalhousie University after October 1st. The completed form must be returned to the Admissions Office by December 15 in order to be considered for entry to the class beginning the following September. Applications from all students, including those who have attended Dalhousie or King's, must be accompanied by a \$15.00 processing fee, which is not refundable and is not applicable to tuition fees.

A completed application consists of (1) the application form filled out by the applicant as required, with the medical certificate on the application form completed by a physician, (2) the \$15.00 fee as noted above, (3) three completed confidential assessments (which are to be sent directly to the Admissions Office), (4) evidence that the new Medical College Admission Test has been taken, (5) a high school matriculation certificate or its equivalent, (6) official transcripts from all universities and colleges attended by the applicant (if the applicant is still engaged in university studies, an interim transcript is to be sent when the application is made and a final official transcript forwarded by the institution concerned on the completion of those studies), (7) supplementary information form and (8) copy of valid First Aid certificate (St. John Ambulance Standard First Aid Certificate, or its equivalent).

The Admissions Committee will not consider incomplete applications.

2. Selection Objectives: The Faculty is seeking students who have good academic records. This includes sound basic training in the sciences in order that they can understand the complexities of modern scientific medicine. It is equally important that the students selected recognize that medicine is concerned with human problems and therefore a knowledge of the humanities and social sciences by the candidates will be of benefit to them during their training and in future practice. The greatest possible proficiency in communication and self-expression, both oral and written, is an asset to the future medical practitioner. In addition, in order to have acquired the required degree of intellectual maturity, the prospective medical student should have more than basic training in at least one field of learning, whether it be in the sciences, humanities or social sciences.

3. Selection Factors: Sources of information and factors considered by the Admissions Committee include (a) academic requirements, (b) ability as judged on high school and university records and on the new Medical College Admission Test, (c) confidential assessments received from referees of the applicant's choice and from any others the Committee may wish to consult, (d) interviews, (e) places of residence and (f) health assessment. More detailed comments and explanations on each of these follow in paras. 4-11 below.

4. Minimum Academic Requirements: Most successful applicants have completed an appropriate bachelor's degree program which must include university classes in English, biology, general chemistry, organic chemistry and physics, each of an academic year's duration. The science classes must include laboratory instruction. High school level biology, English, chemistry and physics are *not* accepted as equivalent to the required subjects. Premedical preparation is normally regarded as an opportunity to acquire a liberal education rather than or in addition to specialized training. Such preparation should not consist of a majority of introductory level classes. It is expected that an appropriate bachelor's degree program includes classes in other disciplines such as the humanities, social sciences, languages and mathematics.

Truly outstanding students who are residents of the maritime provinces, whose high school preparation has included English and mathematics, who have enrolled in a regular degree program, who have achieved emotional maturity and who show evidence of a broad life experience may be considered after they have completed a minimum of 10 academic classes (usually during two years of full-time attendance) in the faculty of arts/science. The minimum academic course must

include the five required classes. The five additional elective classes must include at least two beyond the introductory level in a particular subject. A bachelor's degree is required of non-resident applicants.

Academic requirements must be completed before June 10 of the year of expected entry to this Faculty.

In the Faculty of Arts and Science at Dalhousie University the required classes are English 100, Biology 1000 or 2000, Chemistry 110 or 111, 112, 120 and Chemistry 240 and Physics 1000, 1100, 1300 or any equivalent classes.

5. Academic Ability: Because of the difficulty in comparing marks and grades from the various universities from which our students are drawn, it is not possible to state a minimum standard to ensure serious consideration for admission. However, a demonstrated capacity to carry a full program of demanding advanced level classes is a necessary asset for a medical student. The ability to obtain consistently better than average grades in such a program is the best indication of that capacity. An academic record which shows failed or repeated classes, classes passed with low grades or supplementary examinations, particularly in the two years prior to anticipated entry into medical school, makes the prospect of admission unlikely. With a limited enrolment and many more applicants than the class requires, those with the best academic record will have the greatest chance of admission. Nonetheless, the Admissions Committee can, and does, make significant use of non-academic factors (see para. 8) in deciding which applicants will be admitted.

6. New Medical College Admission Test: The MCAT is an absolute requirement for admission to the Faculty of Medicine. It is a useful predictor of academic performance in medical school and considerable weight is placed on its results by the Admissions Committee. Those whose scores place them in the lowest third among those taking the Test cannot be seriously considered for admission. It is the responsibility of the applicant to arrange to take the Test. It must have been taken not more than two years before an admission application is submitted and not later than the September 1986 writing. Admission applications are not accepted from those who intend to take the Test in April 1987 for September 1987 entry.

Information about the MCAT, including an application form, can usually be obtained from the Registrar of the university the student is attending or by writing to MCAT Registration, The American College Testing Program, PO Box 168, Iowa City, Iowa, 52243. *The latest date for submitting an application is about four weeks before the testing date. Those intending to take the Test in October should take steps to obtain an application form before August — one year before expected admission to this Faculty.*

7. First Aid Training: A valid certificate for the standard St. John Ambulance First Aid Course (or its equivalent) is a prerequisite for admission to the Faculty of Medicine.

8. Non-Academic Factors: These play a very important part in the evaluations of the Admissions Committee. The attributes of emotional stability, intellectual curiosity, social values, initiative, leadership, reliability, personal maturity, motivation and communicative skills, as determined by referee's confidential assessment, interviews, etc., are considered for each candidate. Any outstanding achievement is given consideration. Such achievement would be drawn to the attention of the Committee by the referees or in the Supplementary Information Form provided.

9. Interviews: If possible, all applicants from the Maritime Provinces (and selected non-residents) are invited for interview. Preliminary interviews are done by student teams from the third-year class. Should

the interviewers have reservations about an academically acceptable candidate, a second interview by members of the Admissions Committee is arranged.

10. Place of Residence: Admission preference is given to Canadian citizens (or landed immigrants) whose place of residence is in Nova Scotia, New Brunswick or Prince Edward Island (the Maritime Provinces of Canada). The place of residence is normally presumed to be the country or province in which the home of the applicant's parents is located. Attendance at a university in the Maritime Provinces does not, by itself, constitute having residence in the Maritime Provinces.

Applications from very-well qualified students from other provinces and countries will be considered for up to 10 per cent of the entering places in each class. Unless such non-resident applicants have reasonable prospects of being accepted in their local medical school they should not expect to be accepted here and would be well-advised not to apply.

11. Health Assessment: To ensure fitness for the study and practice of medicine the Medical Certificate (a part of the application form) must be completed by a physician on behalf of each applicant.

12. Immunization Requirements: The Faculty of Medicine has an immunization policy that requires proof of the following immunizations: (1) Diphtheria and Tetanus toxoid in the last 10 years; (2) Polio vaccine in the last 10 years — inactivated polio vaccine or previous oral polio vaccine. Oral polio vaccine is not recommended if previous vaccination was more than 10 years ago; (3) Rubella vaccine — applicants must show evidence of serum immunity or administration of rubella vaccine; (4) Measles vaccine is required by all applicants born after 1956 who have no history of measles infection.

13. Notification: Candidates are informed of the status of their application at the earliest possible date. (a) Those who, at the time of the submission of their application, have already completed the academic requirements (and whose applications are otherwise complete) should expect to have been notified before the end of May of one of three decisions: "accepted," "application deferred for further consideration" or "not accepted."

(b) Those who are in the process of completing the academic requirements in the current application year (and whose applications are otherwise complete) should expect to have been notified before the end of April of one of three decisions: "provisionally accepted (subject to successful completion of current studies to the satisfaction of the Admissions Committee)," "application deferred for further consideration" or "not accepted."

(c) Every effort is made to notify all "deferred" applicants of the final decision before the end of June. This decision may be that the applicant's name has been placed on a "reserve list" from which subsequent class vacancies, if any occur, will be filled.

14. Acceptance Fee: On notice of acceptance into the Faculty of Medicine, applicants must be prepared to sign a formal agreement of acceptance and to deposit with the Registrar the sum of \$100 before a specified date. This sum is credited toward tuition fees if the student registers but is not refunded if the student withdraws.

15. Eligibility: An application is not considered if the applicant has been required to withdraw from another medical school at the request of the Faculty of that school.

16. Re-application: A new application form must be completed in each year in which application is made.

17. Exceptions: In exceptional circumstances, for students of high academic standing only, certain of the academic requirements may be waived or modified by the Faculty Admissions Committee.

18. Amendment of Admission Regulations: These regulations may be amended or added to without notice by the Faculty of Medicine. In ordinary circumstances adequate notice of change is given.

Admission with Advanced Standing

Under special circumstances transfers will be accepted from other recognized medical schools. Inquiry should be made by a letter to the dean, including a summary of premedical and medical school qualifications and a statement of the reasons for wishing to transfer. If this information indicates that there is some prospect that the Faculty might give serious consideration to the applicant, forms and the relevant regulations will be provided.

Curriculum Leading to MD Degree

The curriculum of the Faculty of Medicine was under critical review for a number of years. This study led to the preparation and adoption, in 1968, of a new program of studies. A description of the new curriculum follows.

Statement of Objectives

The Faculty of Medicine is responsible for delineating the objectives of the curriculum, providing a stimulating environment for learning, and stressing the attainment of objectives.

The student is responsible for learning the science, skills and art of Medicine during the undergraduate years, and for developing habits of learning which continue throughout his subsequent career.

The student should acquire attitudes essential for his function as a physician. These include compassion and perceptiveness in the care of patients, understanding the fundamental rights of the patient, intellectual honesty, and a willing acceptance of the responsibility for the initiation and continuing co-ordination of all efforts directed toward the patient's problems as they relate to his health.

The student, under the guidance of the Faculty, should learn how the resources of the community may be used in the optimal health care of his patients; they should recognize that health care is the responsibility of a team of individuals with whom he works in providing patient care.

Principles of the Educational Program

The curriculum interprets the objectives as outlined in the previous section in terms of the knowledge, the skills, and the attitudes which the student must acquire by the time he commences to practise as a physician. Because medical science is expanding and changing so rapidly, this Faculty believes that what is more important than the knowledge which the student acquires, is his ability to manipulate this knowledge and act effectively, whether he eventually functions as a practising physician, a research worker, a teacher, or a combination of these. Accordingly, the curriculum is designed to present the student with a limited, but essential, amount of material, which is commonly called "core knowledge." However, the curriculum also emphasizes totally independent study, as well as a slightly more formal elective program.

The curriculum is designed to unify the preclinical sciences and the clinical disciplines. The traditional divisions of medicine are represented by the Departments of this medical school. In the new curriculum, to a large extent, the teaching activities of these Departments are merged into co-ordinated learning blocks, based on the various body systems. In this way, as the student learns about the human being in health and disease, the unity and interdependence of the various subjects are emphasized.

Courses of Studies for the MD Degree for the Session 1985-86

First Year

Begins in September, duration 37 weeks elapsed time. 90 hours of student-designed faculty-approved elective experience.

Required Course Titles	Total Hours
Biochemistry	140
Blood	16
Cardiovascular	70
Clinical Experience	75
Cardiopulmonary Resuscitation	8
Gastrointestinal	65
Human Development	67
Introductory Anatomy	35
Interviewing Skills	18
Musculoskeletal	65
Pathology	56
Community Health and Epidemiology (includes Ethics and Law)	48
Radiology	3
Renal	38
Reproduction	30
Respiratory	66

Second Year

Begins in September, duration 37 weeks elapsed time. 90 hours of student-designed faculty-approved elective experience.

Required Course Titles	Total Hours
Blood	21
Cardiovascular	64
Clinical Experience	156
Endocrine	35
Gastrointestinal	50
Head and Neck	42
Immunology	37
Infection	82
MS	35
Neurosciences and Special Senses	87
Pharmacology	55
Community Health and Epidemiology	16
Psychiatry	30
Renal	30
Reproduction	27
Respiratory	50

Third Year

Begins in September, duration 31 weeks elapsed time. 57 hours of student-designed faculty-approved elective experience.

Required Course Titles	Total Hours
Blood	12
Clinical Experience	387
Endocrine	16
Gastrointestinal	20
Genetics	9
Human Sexuality	35
Immunology	12

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Infection	14
Integumentary	10
Law for the Physician	9
Neurosciences and Special Senses	51
Oncology	6
Ophthalmology	10
Otolaryngology	10
Community Health and Epidemiology	15
Psychiatry	36
Renal	22
Reproduction	49
Therapeutics	23

*Revisions are being planned for 1986-87.

Fourth Year

Begins in May, duration 52 weeks.

* See note below.

Required Course titles	Total Hours
Anesthesia, Radiology, Procedures	70 hours
Elective	4 weeks
Family Medicine	4 weeks
Medicine	8 weeks
Obstetrics, Gynecology, Urology	8 weeks
Pediatrics	8 weeks
Psychiatry	4 weeks
Specialties	4 weeks
Surgery	8 weeks
Vacation	4 weeks

* Clinical Clerks will be subject to the rules and regulations of the hospital departments to which they are assigned concerning hours of duty, holidays, etc. Patient care responsibilities override University and statutory holidays.

Death and Dying — Some components of this course are integrated into other disciplines. In addition thirteen hours are scheduled during third and fourth year for lectures, films and discussions on caring for dying patients and their relatives.

Electives are also available.

Ethics is integrated into the Human Development course in Year I.

Evaluation

Examinations

Examinations are held in the Faculty of Medicine for two purposes:

(1) to enable both student and Faculty to evaluate progress, which determines where satisfactory progress has been achieved, and also to discover where difficulties lie so that remediation can be taken; and

(2) to certify to the public and its licensing authorities that a graduate of this Faculty of Medicine is a dependable and competent physician.

To meet the above objectives, two types of examinations are held throughout the first three undergraduate years. *Learning examinations* are held throughout the year (usually at the end of the system blocks of teaching) to enable each student to evaluate areas already learned in order to use time more efficiently in preparation for final exams. *Grading examinations* take place at the end of the school year (First and Second Year at Christmas and year-end).

First and Second Year students write five or six papers and an Anatomy practical exam spaced over a one-week period. These papers encompass all subjects taught during the year. Third year students write a two-day integrated examination in March each year. Evaluation of performance during the clinical clerkship (Fourth Year) is based on a series of ongoing assessments of knowledge, skills and attitudes by each Department.

Regulations for Advancement

The pass mark for each subject is 55 percent; the Distinction mark is 80 percent. A student must attain 60% of the aggregate (in raw marks) to be promoted to the next year.

A student in Medicine I and II with an average between 60 percent and the class mean who has failed no more than three pass/fail subjects may be permitted remedial training periods and supplemental examinations at the discretion of the Promotions Committee. A student in Med I and II with an average above the class mean will be permitted an unlimited number of remedial training periods and supplemental examinations. In Medicine III only two supplementary examinations will be allowed.

Any student with an average mark of 50 percent or more but less than 60% who has not satisfied the promotion criteria will be considered by the Promotions Committee in the light of *academic and other information*. Those with a single poor year and otherwise excellent or good marks *may* be allowed to repeat the year; others will generally be required to withdraw. Any student who completes most of a year's work but who for whatever reason does not write the examinations and is allowed to repeat, will be considered as a student in a "repeat year." No student will be allowed more than one repeat year. In a repeat year supplemental examinations are only permitted when the student's total average is at least equal to that of the class mean. A student in second year with 5 subject failures after Christmas final examinations must carry on and complete the academic year. Any student with an average mark of less than 50% or who fails more than 5 subjects will be required to withdraw. A student in a repeat year who fails a supplemental examination will be required to withdraw.

Notwithstanding these guidelines, Faculty may require a student to withdraw for other academic reasons or if judged to be inadequate in aptitude and fitness for the profession of Medicine.

As an academic requirement, students will also be assessed in each year on their aptitude and fitness for the profession of Medicine. Because of the nature of the study and practice of Medicine, which places patients in a position of special trust in relation to physicians and medical students, conduct unbecoming the medical profession may be grounds for dismissal, non-promotion or suspension. Aptitude and fitness for the profession of Medicine will be determined by the Faculty and its committees and be a requirement for promotion.

Irregularities in Evaluation Procedures

A member of the University who attempts or who assists any other person in an attempt to obtain, by irregular procedures, academic standing in a course related to any degree, diploma or certificate program, commits an academic offence and is liable of penalty.

Without limiting possible irregularities in evaluation procedures that may be considered by the Senate Discipline Committee, the following examples shall be considered irregular procedures:

1. arranging for or availing oneself of the results of any personation at any examination or test, or
2. attempting to secure or accepting assistance from any other person at any examination or test, or
3. having in one's possession or using any unauthorized material during the time that one is writing any examination or test, or
4. without authorization procuring a copy of an examination, test, or topic for an essay or paper, or

5. in the absence of any enabling statement by the Faculty member in charge of that course, submitting any thesis, essay, or paper for academic credit when one is not the sole author, or,

6. without authorization submitting any thesis, essay or term paper that has been accepted in one course for academic credit in any other course in any degree, diploma or certificate program.

Penalties

The Senate Discipline Committee, when it finds that a member of the University who is a student has committed an academic offence or irregularity may impose one or more of the following penalties:

- loss of all credit for any academic work done during the year in which the offence occurred;
- suspension of rights to attend the University for a specified period;
- dismissal from the University;
- such lesser penalty as the Committee deems appropriate where mitigating circumstances exist.

Student Discipline

Whereas undergraduate medical students generally do not come within the jurisdiction of the provincial medical licensing authorities, interns and residents do. The Faculty of Medicine requires the same standards of ethics and behaviour of undergraduate students, interns and residents as does the Provincial Medical Board of Nova Scotia. Offences under the Provincial Medical Act coming to the attention of the Faculty of Medicine will be reported to the appropriate Provincial Medical Board. Specifically but not exclusively, two major areas are of concern:

- The illegal use of drugs or impairment from unreasonable use of legal drugs.
- Medical students as well as physicians of necessity are made privy to people's matters. The rules of confidentiality traditional to the medical profession must not be breached. Students are to be guided by a code of ethics such as that of the Canadian Medical Association.

Licensing

Following the completion of the fourth year of medicine, students write the Medical Council of Canada Qualifying Examination as a requirement for licensure. In addition students are reminded that they must conform to the regulations prescribed by the Medical Board or Council of the province in which they reside. To obtain an Enabling Certificate, the student must apply to the licensing authority of his home province and satisfy the requirements for issuance of same. A brochure is obtainable at the Office of the Provincial Medical Board of Nova Scotia for students from Nova Scotia. The names and addresses of the Registrars of the Medical Licensing Authorities of the Atlantic Provinces and the Medical Council of Canada are as follows:

Nova Scotia: Dr. M.R. Macdonald, Lord Nelson Arcade, Suite 315, 5675 Spring Garden Road, Halifax, N.S. B3J 1H1

New Brunswick: Dr. Eric McCartney, 10 Prince Edward Street, Saint John, N.B. E2L 4M5

Prince Edward Island: Dr. Stewart MacDonald, 206 Spring Park Rd., Charlottetown, P.E.I. C1A 3Y9

Newfoundland: Dr. G.M. Brownrigg, 47 Queen's Road, St. John's, Nfld. A1C 2A7

Medical Council of Canada: The Registrar, P.O. Box 8234, Ottawa, Ont. K1G 3H7

Pre-Registration Clinical Training

Rotating internships and straight internships in Family Medicine, Medicine and Pediatrics are available. These university-arranged and -supervised programs are conducted with the co-operation of hospitals in the Maritime Provinces which provide the facilities of one or more of their clinical services.

The primary objective is to ensure that the intern develops broad competence in clinical medicine that satisfy the licensing requirements for intern training of most Canadian provinces. The program is amended annually to maintain and improve the quality of services to which interns are assigned. The intern is asked to submit a critique of experience on each service, and his performance on each service is evaluated and discussed.

The major emphasis is on provision of a variety of rotating internships which, to maintain educational equivalency, are arranged on a standard format. All rotations provide eight weeks internal medicine, eight weeks surgery, eight weeks obstetrics/ gynecology, eight weeks pediatrics, four 4-week blocks devoted to psychiatry, emergency and elective experience, and four weeks leave. Interns are not assigned to a hospital but to a service within a hospital. Rotating internships are based in either Halifax, Nova Scotia, or Saint John, New Brunswick; rotating interns, as well as straight interns in family medicine, are required to spend from 8 to 16 weeks away from base.

Only a limited number of straight internships in pediatrics and internal medicine are available. These meet the requirements of the Royal College of Physicians and Surgeons of Canada, but do not meet the licensing requirements for general practice of the Provincial Medical Board of Nova Scotia.

Students interested in residency training in Family Medicine should apply for the first year of the two-year training program. This straight internship year in Family Medicine meets the requirements for eligibility for Nova Scotia licensure which is required for entry into the second year.

Resident Training

A number of university-integrated resident training programs, approved by the national accrediting agency concerned, are offered. These prepare candidates to write certification examinations and thereafter practise their specialty. The candidate must have successfully completed pre-registration training. Each program is conducted in a university department, by a director of residency training fully qualified in the discipline concerned. Doctors interested in joining a training program should identify the program in which they are interested when writing to the university.

The College of Family Physicians of Canada approves the two-year training program in Family Medicine. Trainees in the second year receive formal training in at least two different communities, in office, home and hospital settings.

Family Medicine Program Director

Dr. C. Phillips — Department of Family Medicine

The Royal College of Physicians and Surgeons of Canada approved the following programs, which range in duration from three to five years, being in most instances four years.

July 1, 1985 Approved Specialty Training

Programs and Directors

Anesthesia

Dr. R.A. Barker, Department of Anesthesia

Cardiology

Dr. B.R. MacKenzie, Department of Medicine

Community Medicine

Dr. F.M.M. White, Department of Community Health and Epidemiology

Dermatology

Dr. J.B. Ross, Department of Medicine

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Diagnostic Radiology

Dr. D.R. Campbell, Department of Radiology

Gastroenterology

Dr. C.N. Williams, Department of Medicine

Hematology

Dr. O.A. Hayne, Department of Medicine

Internal Medicine

Dr. R.D. Gregor, Department of Medicine

Neurology

Dr. C.W. McCormick, Department of Medicine

Pediatrics

Dr. A.L. Goldbloom, Department of Pediatrics

Physical Medicine/Rehabilitation

Dr. R.L. Kirby, Department of Medicine

Psychiatry

Dr. W.D. McCormick, Department of Psychiatry

Rheumatology

Dr. Edith Jones, Department of Medicine

Pathology Programs

Dr. Ismail Zayid, Coordinator of four Pathology Programs

Anatomical Pathology

Dr. V. Sangalang, Department of Pathology

General Pathology

Dr. S. Boudreau, Department of Pathology

Hematological Pathology

Dr. B.L. Sheridan, Department of Pathology

Medical Biochemistry

Dr. L.C. Dymond, Department of Pathology

Medical Microbiology

Dr. J.A. Embil, Department of Microbiology

Cardiovascular & Thoracic Surgery

Dr. D.A. Murphy, Department of Surgery

General Surgery

Dr. D.V. Willoughby, Department of Surgery

Neurosurgery

Dr. R.O. Holness, Department of Neurosurgery

Obstetrics/Gynecology

Dr. William Wrixon, Department of Obstetrics/Gynecology

Ophthalmology

Dr. M.S. Ramsey, Department of Ophthalmology

Orthopedic Surgery

Dr. R.H. Yabsley, Department of Surgery

Otolaryngology

Dr. G.M. Novotny, Department of Otolaryngology

Plastic Surgery

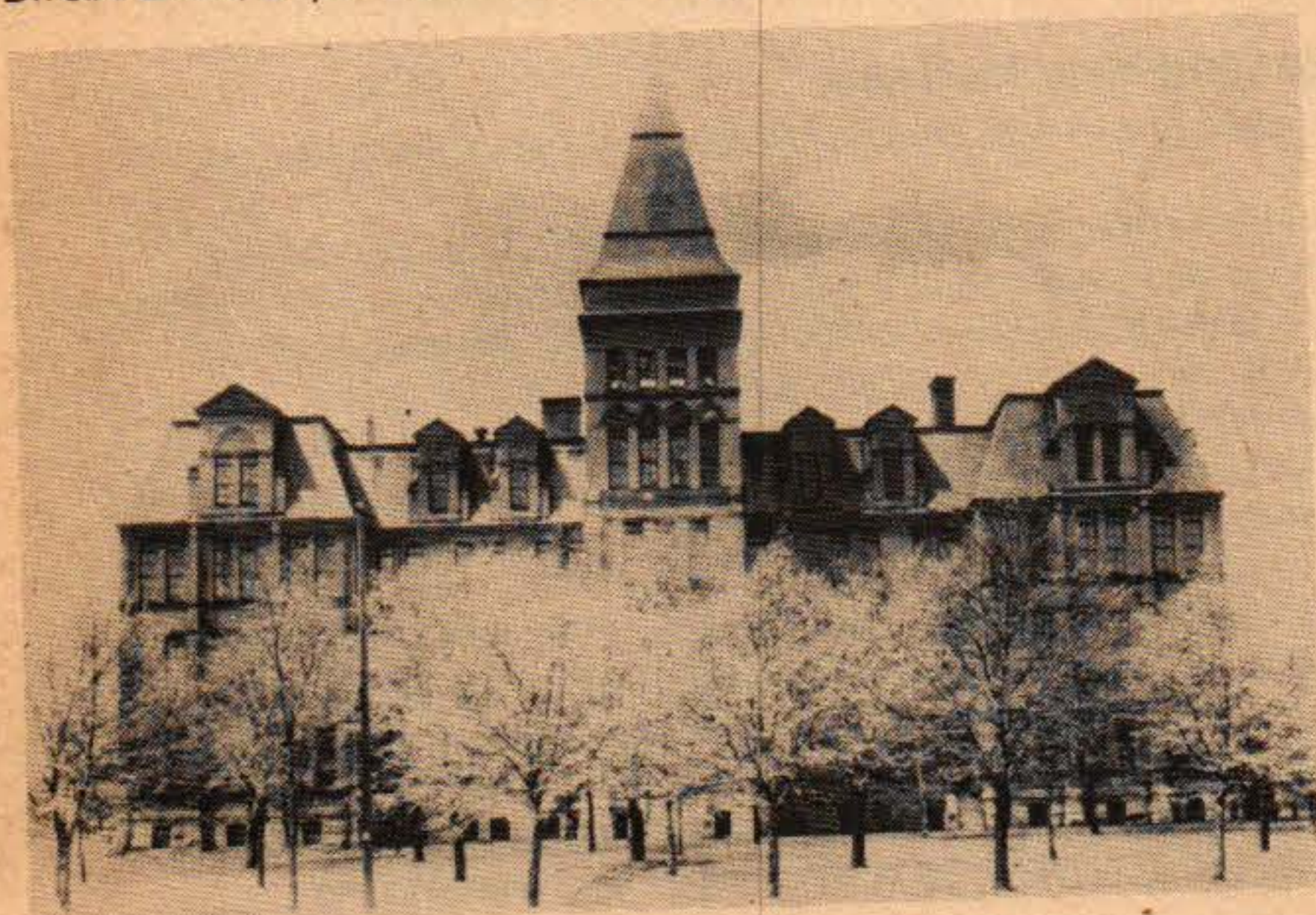
Dr. W.S. Parkhill, Department of Surgery

Urology

Dr. S.A. Awad, Department of Urology

Continuing Education

Throughout the four undergraduate years, students in the Faculty of Medicine have opportunities to attend and observe university- and community-based continuing medical education programs. A continuing medical education seminar is conducted with all fourth-year students during their rotation in Family Medicine. This provides the opportunity to discuss a physician's objectives in the continuum of medical education after graduation and the opportunities which exist to assist in planning his/her own continuing medical education program. Participation of residents is encouraged in all programs of continuing medical education. The student who becomes aware of continuing medical education early in the undergraduate medical career and throughout the four years of training is able to develop a positive attitude towards personal continuing medical education.



1915 - the Medical School then moved to the Forrester Building

Departmental Programs

Anatomy

Professor Emeritus
Saunders, Richard L. de C.H.

Dr. D.G.J. Campbell Professor and Head of Department
D.G. Gwyn

Professors
D.M. Chapman
D.H. Dickson
D.A. Hopkins

Associate Professors

J.R. Asuncion, Jr.
R.E. Clattenburg
M.M. Hansell
D.A. Hopkins
R.A. Leslie
I.G. Mobbs
D.M. Nance
J.C. Penney
J.G. Rutherford
V.G. Vethamany
R.J. Wassersug

Assistant Professors

R.W. Currie
P.C. Jackson
J.A. Matsubara
J.E. Scott

Lecturer

J.D. Shaw

Instructor

P.H. Wilkinson

The objectives of the study of anatomy are: (a) to provide a knowledge of the structure of the body which may be used as a foundation for understanding other basic sciences and clinical medicine; (b) to correlate the dissection of the cadaver with radiological anatomy and the physical examination of the living; (c) to provide further understanding of the structure and function of organs and tissues through a knowledge of their developmental and microscopic anatomy. The anatomy courses with the exception of Introduction to Anatomy and the Head and Neck are organized under the systems of the body (e.g. cardiovascular, gastrointestinal, etc.).

First-Year Medicine

At the beginning of the academic year, an orientation lecture is offered during which the regulations of the Anatomy Act and the Human Tissue Gift Act are explained. Students are also given an introduction to the experience of human dissection.

Lecture and laboratory classes are held in the following courses:

1. Introduction to Anatomy — An introductory course covering the gross anatomy of all systems of the body. Also included are cytology, histology of the tissue types and a description of human development to the end of the embryonic period.
2. Hematology Block — three hours of instruction covering the cytology of normal blood as demonstrable by the light microscope and by electronmicrographs.
3. Respiratory Block — this course covers the basic embryology, histology, gross and radiological anatomy of the human respiratory organs, including the structure of the thoracic wall and the breast.
4. Cardiovascular Block — this course stresses the embryology essential for an understanding of congenital heart disease and histology of the heart wall, valves and blood vessels. The gross and radiological anatomy of the heart and great vessels are covered, with emphasis on mediastinal topography, the conducting system and the coronary circulation. The peripheral vessels are studied by dissection with the corresponding system blocks.
5. Gastrointestinal Block — the gross and microscopic anatomy and embryology of the mouth, oesophagus, abdominal viscera, liver and pancreas and of the rectum and anal region are studied. The gross anatomy of the abdominal contents is correlated with normal radiological anatomy. The musculature of the anterior abdominal wall and the peritoneal reflections within the abdominal cavity are described to give a basic understanding of hernias and common surgical incisions.
6. Renal-metabolic Block — this course covers the embryology, the gross and microscopic anatomy of the kidney, ureter and urinary bladder, as an introduction to clinical study.
7. Musculoskeletal Block — the microscopic anatomy of bone, cartilage and muscle and the essential embryology, gross anatomy, living anatomy and radiological anatomy of the back, upper limb and lower limb. The peripheral nerves and vessels are also studied to provide a background for the clinical study of abnormal motor activity, nerve injuries and peripheral vascular disease.
8. Reproductive Block — this course covers the embryology and histology of the breast and sex organs. Histological details of the menstrual cycle are discussed. The gross anatomy of the male and female pelvis and perineum and external genitalia are studied. Emphasis is placed on the anatomy which is relevant to childbirth.

Second-Year Medicine

Lecture and laboratory classes are held in the following courses:

9. Neurosciences and Special Senses Block — the gross and microscopic anatomy of the human central nervous system is presented in a series of lectures and laboratory periods. The integration and functional significance of structures composing the central nervous system are stressed. These lectures and laboratories are designed to provide the student with the neuroanatomical foundation necessary for subsequent clinical studies.
10. Head and Neck Block — the course covers the gross anatomy, radiological anatomy and embryology of the more important aspects of the head and neck, along with the histology of the special senses. The subject matter is relevant to the Neurology and the Neurosciences and Special Senses Block and also prepares the student for studies in neurology, neurosurgery, ophthalmology and otolaryngology.

11. Endocrine Block — a course that covers the development and histology of the endocrine glands.

Suggested Texts: (ones which the student should buy) Snell, Clinical Anatomy for Medical Students or Moore, Human Anatomy; Cunninghams Manual of Practical Anatomy, Vols. 2&3; Grant, Grant's Atlas of Anatomy; Junqueira's Carneiro, Basic Histology; Leeson & Leeson, A Brief Atlas of Histology or DiFiore, Atlas of Human Histology; Moore, The Developing Human; Barr, The Human Nervous System (for second year). Optional: Stedman's Medical Dictionary; Snell, An Atlas of Normal Radiographic Anatomy.

Reference Texts: Clemente, Gray's Anatomy, 30th edition; Healy, Synopsis of Clinical Anatomy; Lockhart, Hamilton & Fyfe, Anatomy of the Human Body; Regional and Applied; Bloom & Fawcett, A Textbook of Histology; Fawcett, The Cell (an atlas of fine structure); Ham & Cormack, Histology; Carpenter, Strong & Elwyn's Human Neuroanatomy; Arey, Developmental Anatomy; Hamilton, Boyd & Mossman, Human Embryology; Langman, Medical Embryology.

Electives for Medical Students: The department participates in the elective program.

1. First year students. The Department offers a variety of essay topics covering recent research, which enable students to become familiar with the facilities of the Kellogg Health Sciences Library. The Department also offers short research projects under the direction of staff members for medical students who have masters or doctoral degrees.

2. Second and third-year students. The Department offers short research projects under the direction of staff members. The Department also offers electives in Head & Neck Anatomy, Neuroanatomy. An elective in Musculoskeletal Anatomy is offered in conjunction with the staff of the Division of Orthopedic Surgery.

Residency Training

Programs can be arranged for residents to help fulfill basic science requirements in specialty training.

Graduate Studies

Students wishing to take classes leading to an MSc or PhD degree in Anatomy should consult the calendar of the Faculty of Graduate Studies. Medical graduates wishing to take advanced training in neuroanatomy, gross anatomy, developmental anatomy or histology should consult the Head of the Department. (For details of courses see Faculty of Graduate Studies Calendar.)

Classes for Dentistry Students

Gross Anatomy: A year course, centred on a clinical approach, is offered to first year students. Special emphasis is placed on the anatomy of the mouth and related structures of the head and neck.

Microanatomy: This class for first-year dental students consists of one lecture and a two-hour laboratory per week. This section covers the microscopic structure of the tissues and organs of the human body, stressing the relationship of structure and function.

Correlative Craniofacial Embryology & Histology: This class for first-year dental and dental hygiene students is given jointly by the Department of Anatomy and the Department of Oral Biology. There are weekly one-hour lectures from September to December and two lectures per week in the second term. Embryology and histology of the head are emphasized.

Neuroanatomy: An overview of the gross and microscopic anatomy of the human central nervous system is presented in a series of approximately sixteen lectures and ten laboratory periods. This course is given in the spring term concurrent with Neurophysiology.

Classes for Health Professions Students

General basic courses in gross anatomy, microanatomy and neuroanatomy are offered to meet the needs of students in nursing and pharmacy (101A), health education and physical education (102C) and dental hygiene (103C). Instruction is given by means of lectures and laboratory sessions, (except 101A, all instruction in this course is by means of lecture). Special courses in gross anatomy, microanatomy and neuroanatomy are offered to Physiotherapy and Occupational Therapy students (216R, 217R).

The following courses are open with a limited enrollment to Arts and Science students:

Neuroanatomy 210B/Biology 3440B
Human Histology 216A/Biology 3430A

Anesthesia

Professor and Head of Department
C.E. Hope

Professors

E.A. Moffitt
I.E. Purkis
J.K. Rosales

Associate Professors

A.A. Drysdale
K.W. Fairhurst
J.H. Feindel
R.A.P. Fleming

D.D. Imrie
J.W.D. Knox
P.M. Leavitt
W.D.R. Writer

Assistant Professors

C.T.B. Allen
R.A. Barker
T.J. Coonan
E.C. Davies
S. Donigiewicz
C.P. Joules
A.C. Kelly
R.G. McLaren
J.A. MacDougall

D.L. Morrison
J.D. Morrison
C.A. Murchland
D.A. Rideout
J.A. Smith
W.A.P. Thompson
J.C. Thomson
I.N. Uy

Lecturers

A.J.M. Clark
J.J. Glenn
G.L. Goulding
K.R. Hamilton
P.G. Houlton
P. Jackson
I.C. Keith
A.J. McIntyre
M.F. Murphy
S.S. Persaud

F. Roper
J.E. Scovil
R.C. Shukla
C.M. Soder
J.A. Stewart
S.S. Stubbs
K.F. Wells
D. Wills
H. Yazer

Instructor

D.V. Graham

Clinical/Teaching Fellows

E. Ashbury	P.N. Nicholls
K. Dauphinee	D. O'Brien
B. Gallacher	D. Oxorn
W. Gornall	S. Pytka
G. Johnson	R. Toma
J.T. Murphy	

The Department of Anesthesia provides general, regional and local anesthesia for all types of general surgery, neurosurgery, cardiovascular surgery, urology, gynecology, plastic and orthopedic surgery, and obstetric and pediatric anesthesia in the operating and case rooms of the hospitals affiliated with Dalhousie University. It has intensive care responsibilities and consultation services in most hospitals. The Department at the Victoria General Hospital is jointly responsible with the Department of Surgery for the Surgical Intensive Care Unit activities. Additionally the Department also operates a Pain Clinic at the Victoria General Hospital.

Its faculty is well equipped to teach all aspects of medicine related to anesthesia and acute care medicine, and illustrate the application of the basic sciences of physiology, pharmacology and anatomy to anesthesia. They participate in undergraduate instruction in basic science subjects, and in system block committees. Some are responsible for Basic and Advanced Cardiac Life Support Certification.

Fourth-Year Medicine

A four-day course is given at the beginning of fourth year dealing with cardiopulmonary resuscitation, with an introduction to training in the skills of intravenous therapy, endotracheal intubation, artificial ventilation, closed chest-compression, arrhythmia detection and electrical and pharmacological treatment.

Electives

First Year: Departmental faculty act as preceptors in guiding students in a literature survey.

Second and Third Year: One afternoon per week may be taken as an elective in Anesthesia, acquiring specific skills or investigating a particular topic.

Fourth Year: Clinical clerks may choose one month of Anesthesia as an elective, to further practice the basic skills associated with airway control and ventilation.

Internship

Four weeks may be taken in Anesthesia to further upgrade skills and knowledge related to acute care medicine.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada.

Participating hospitals are the Victoria General, Camp Hill Hospital, Grace Maternity Hospital, Izaak Walton Killam Hospital for Children, Halifax Infirmary and Saint John Regional Hospital.

A two-year diploma course is also available. These two years will count toward Certification or Fellowship of the Royal College of Physicians and Surgeons of Canada.

Biochemistry

Professor Emeritus
L.B. Macpherson

The Carnegie and Rockefeller Professor and Head of Department
R.W. Chambers

Professors

A.H. Blair
W.C. Breckenridge
W.F. Doolittle
M.W. Gray
C.W. Helleiner
C. Lazier
C. Mezei
F.B. Palmer
S.J. Patrick
D.W. Russell
S.D. Wainwright

Associate Professors

P.J. Dolphin
R.G. Fenwick
F.I. Maclean
R.A. Singer (major appointment in Medicine)
J.A. Verpoorte

Assistant Professors

M.W. Spence (major appointment in Pediatrics)
L.C. Stewart
M.H. Tan (major appointment in Medicine)

Lecturers

H.W. Cook (major appointment in Pediatrics)
D.E.C. Cole (major appointment in Pediatrics)
R.A. Mulronev

First-Year Medicine

Man is an unstable entity. He lives not at equilibrium with his environment but at steady-state with it. This is an inherent consequence of the highly ordered structure displayed by all living organisms. Biochemistry is the study of this highly ordered state. Its goals are to describe (1) how this highly ordered structure is put together; (2) how this unstable structure is maintained; (3) how it is faithfully produced; (4) what causes it ultimately to fail and break down. The major goals of the Medical Biochemistry course are to provide students with the basic principles important to a practising physician and to indicate where we are in our attempt to understand at the molecular level the steady-state process we call "life." The course is divided into four parts. The first of these deals with the macromolecular structure and function of proteins; the second is concerned with intermediary metabolism; the third deals with the transmission and expression of genetic information; and the fourth discusses some special topics in biochemistry of particular interest to clinicians. The course is team taught through a series of lectures and tutorials. Students other than those in Medicine may take this class only with the permission of the department head.

Course coordinator: Dr. Helleiner.

Texts: Lehninger, Principles of Biochemistry.

Suggested references: Smith, Hill, Lehman, Lefkowitz, Handler and White, Principles of Biochemistry; 7th ed., McGilvery, Biochemistry: A Functional Approach 3rd ed.

Second and Third-Year Medicine

The Department makes minor contributions to several system block.

Electives

The Department offers three types of elective programs to limited numbers of medical students. (1) small research projects under the direction of staff members, (2) investigations in some depth of published work on a topic of the student's choice, utilizing the resources of the Kellogg Health Sciences Library, and (3) remedial classes for students with deficient backgrounds in scientific subjects underlying biochemistry. Students wishing to take an elective in Biochemistry should consult Dr. Helleiner so that a suitable program may be selected.

Exemptions

Exceptionally well qualified students may be permitted to undertake research work in lieu of the regular biochemistry instruction. Those interested in pursuing this should consult Dr. Helleiner.

Classes for Dentistry Students

Biochemistry for first year Dental students D1004A.

Nutrition and Biochemistry D1004B: (taught in collaboration with the School of Nursing for Dental Hygiene students).

Classes for Arts and Science Students

Details of the following classes will be found in the Calendar of the Faculty of Arts and Science.

2000R	Cell Biology and Biochemistry
2600A or B	Laboratory Techniques for Cell and Molecular Biology
3200A	Introduction to Biological Chemistry
3300B	Intermediary Metabolism
3400B	Nucleic Acid Biochemistry and Molecular Biology
4300A	Biochemistry of Carbohydrates and Nitrogen Compounds
4301B	Biochemical Communication
4302A	Biochemistry of Lipids
4303C	Biochemical Energetics
4400R	Protein Synthesis and Control Mechanisms
4403A	Structure, Organization and Replication of Genes
4602R	Honours Project and Thesis
4601B	Special Project in Biochemistry
4700A	Physical Biochemistry
4701B	Enzymes
4800R	Clinical Medical Biochemistry
4801R	Introduction to Pharmacology

Classes for Health Professions Students

Biochemistry 3100R: Introductory Biochemistry for Pharmacy Students.

Chemistry/Biochemistry 1430R: (taught in collaboration with Chemistry Department) Introduction to Chemistry and Biochemistry for Bachelor of Nursing Students.

Graduate Studies

The Department offers suitably qualified students an opportunity to study for the degree of Master of Science and Doctor of Philosophy. A complete description of these programs, as well as of graduate classes, is in the *Calendar of the Faculty of Graduate Studies*.

Community Health and Epidemiology

Professor Emeritus
C.B. Stewart

The Eddy Professor and Head of Department
F.M.M. White

Professors

J.A. Embil (cross appointment from Microbiology)
P.C. Gordon (major appointment in Dalhousie Medical Research Foundation)
A.C. Irwin
A.H. Leighton (joint appointment in Psychiatry)
A. Richman (joint appointment in Psychiatry)
A.P. Ruderman (major appointment in School of Health Services Administration)
D.B. Shires (cross appointment from Family Medicine)

Associate Professors

M.G. Brown (joint appointments in Economics and Health Services Administration)
F.G. Cohen (cross appointment from Institute for Resource and Environmental Studies)
J.B. Garner (joint appointment in Mathematics)

Assistant Professors

B.C. Balram
W.B.C. Robertson (adjunct appointment from Department of Veteran Affairs, P.E.I.)
W.F. Schlech (cross appointment from Medicine)
K.E. Scott (major appointment in Pediatrics)
A.D. Thomson (adjunct appointment from Department of Health, Nova Scotia)
L.O. Wynn

Lecturer

D.R. MacLean (adjunct appointment from Atlantic Health Unit.)

The major purpose of this Department is to help the student understand the role of the physician in maintaining the health of the population and in the prevention and control of disease. More specifically the teaching program is designed to meet the following objectives:

1. to help the student develop a knowledge and understanding of the methods required for the primary prevention of disease, its early detection and the prevention of its progression.
2. to help the student learn what the health resources of the community are and how these may be most effectively utilized by the physician for the continuing and comprehensive care of his patients.
3. to assist the student in acquiring a basic understanding and knowledge of data acquisition and of its analysis and interpretation, so that he may apply this to both old and new problems of health and disease through a sound, yet critical, approach.
4. to assist the students in acquiring a basic knowledge of the epidemiological approach to problems of maintaining health and preventing disease, and to recognize that health or disease results from the outcome of the interaction of multiple factors in the host, the agents of disease and the environment.

To achieve these objectives the Department participates in the inter-departmental program designed to teach by systems and presents its own core course of lectures and seminars.

First-Year Medicine

Principles of vital statistics, biostatistics and epidemiology are presented, through lectures and exercises. Illustrated briefly are:

1. measures of mortality and morbidity together with a discussion of how and why these have changed over the time.
2. the relationship between socio-economic status and health and the problems to health presented by the growth of the population.
3. epidemiological methods employed in the search for the causes of disease.
4. biostatistical principles in medicine.

Second-Year Medicine

The departmental core course includes a series of lectures, discussions, problem solving exercises and seminars dealing with the epidemiological principles of infectious and non-infectious diseases and environmental health problems. These principles are further illustrated with reference to specific diseases in the interdepartmental systems teaching program.

Third-Year Medicine

Under the heading The Physician and the Community, there is a series of lectures, seminars and panel discussions dealing with public health organizations and services, the organization and delivery of medical services, health economics, hospital administration and services and specific programs for major community socio-health problems.

Electives

A broad range of electives are offered, most of which involve observation and study of, and participation in, major community socio-health problems, such as the chronically ill, the aged, the mentally retarded, the alcoholic, the family on welfare, etc. Elective programs are designed to provide a learning experience based on the individual student's particular interest.

Residency Program

A joint residency program approved by the Royal College of Physicians and Surgeons of Canada, is offered in affiliation with the University of Toronto.

Texts: Clark and MacMahon (2nd ed.), Preventive and Community Medicine; Mausner and Kramer, Epidemiology — an Introductory Text; Colton, Statistics in Medicine; American Public Health Association, The Control of Communicable Diseases in Man, 13th ed. Last, J.M. (ed.), Maxcy-Rosenau, Public Health and Preventive Medicine, 11th ed., 1980.

Department of Family Medicine

Professor Emeritus

H.C. Still

Professor and Head of Department

B.K.E. Hennen

Professor

D.B. Shires

Associate Professors

C. Abbott (major appointment in Medicine)

D.C. Brown

I. Cameron

N. Hansen (on sabbatical)

T.J. Murray (major appointment, Dean of Medicine)

M.D. Nixon

W.G.C. Phillips

W. Putnam (major appointment in Continuing Medical Education)

Assistant Professors

H.H. Charman (major appointment in Surgery)

W.F. Dennis

D. Gass

R. Lea (major appointment in Obstetrics/Gynecology)

M. MacCara-Reid

H.I. MacGregor

W. Wrixon (major appointment in Obstetrics/Gynecology)

Lecturers

M.R. Banks

D.V. Brien

F. Crombie

J. Curry (major appointment in Surgery)

M. Duncan

L. Freedman

M. Goodfellow

W.L. Johnson

M. Keating

L.A. Kempton

B. King

S. Klynstra

E.A. MacLeod

L.L. Morgan

E.V. Phillips

B.L. Reid

R.F. Scharf

J.A. Smith

K.P. Smith

M.L. Smith

Murdock Smith

J.G. Sommers

E.J. Taiani

Instructors

S. Dyer

S. Gibson

J. Morse

W. Morse

N. Woulff

Senior Clinical Instructor

T. Atkinson

Clinical Instructors

R.L. Anningson

J.F. Archibald

J.M. Auffrey

C. Barry

T.J. Barry

F. Bell

J.P. Beresford

G.H. Bethune

P.M. Brown

R.L. Brown

R.H. Buhr

J.D. Carson

D.J. Cheverie

D. Clark

M. Clark

L. Cloutier-Robinson

D. Cogswell

D.E. Craig

D.W. Craig

R.T. Craig

A.J. Delahunt

M. Dingle

G. duBois

J.M. Fitzgerald

K. Gill

R. Gill

K.D. Gladwin

F.S. Goodine

E. Gozna

S. Hart

K.T. Hasan

J.K. Hayes

T.F. Higgins

E.B. Holmes

G. Horner

R. Hurley

W.E. Irving

J.F. Izzard

P.B. Jardine

G. Jollymore

J. Kazimirski

M. Kazimirski

J.W. Keddy

S. Keyes

R.A. Killeen

P. Kinsman

A.N. Lamplugh

M. Leighton

D.F. Léwis

N.A. Lister

J. MacDonald

D.A. MacElwain

A.W. McLaughlin
 D.B. McDonah
 J.W. McNabb
 M.S. McQuigge
 R. Mishra
 F. Moriarty
 C. Moyse
 E. Nurse
 J.F. O'Connor
 R. Oliver
 L.S. O'Neil
 A.H. Parsons
 W.H. Patterson
 M.P. Quigley
 G.E. Robinson

J. Sacamano
 J. Savage
 J.B. Shaw
 M. Shaw
 F.E. Slipp
 C.B. Stacey
 A. Steeves
 D.I. Stewart
 P. Sturmy
 B.H. Tomilson-Ashley
 M. Trager
 T. Wade
 R. Washburn
 S.A. Willis

Family Medicine

The primary objective of this Department is to ensure that students, before graduation, have had some experience in office and home practice and in the long term follow-up of patients. The main objective of the residency training program is to assist physicians planning a career in Family Medicine attain the necessary skills and knowledge and foster the growth of a helping attitude. A number of members of Faculty from different departments participate in the activities of the Department.

First and Second Year Medicine

The Department participates in the interdepartmental systems subject program and in the introduction to Interviewing and Patient Contact teaching.

Third Year Medicine

In third year, a pair of medical students and one dental student are assigned a family who have agreed to participate in the Patient Contact Year III Family Medicine Program. The purpose of this Program is to teach the principles and practices of Family Medicine. Evaluation is determined by clinical participation and review and a written final exam.

Fourth Year Medicine

All students have one month clinical clerkship in Family Medicine. They spend the first two and one half days of the four week rotation in the Family Medicine Centre, attending seminars and preparing for their clinical experience in two Maritime practices. Each student is assigned two preceptors who are responsible for the schedules of the clerks while with them in their practices. After the community practice experience, the clerks return to the Family Medicine Centre for a two day follow-up and evaluation of the rotation. During this time each clerk is also expected to report on a clinical project topic as well as varied other assignments.

Electives

Individual electives in Family Medicine are offered with respect to the students' interests and abilities in all four years.

Continuing Medical Education

The faculty contribute toward several Continuing Medical Education short courses either in planning or presentation, as well as travelling to community hospitals in the Maritime Provinces and presenting specific topics relating to Family Medicine. In addition, the Department offers a Family Medicine Certification Workshop for candidates writing the certification examinations of the College of Family Physicians of Canada.

Residency Training

The Department and the affiliated hospitals have an established residency program in Family Medicine. This first year (preregistration) meets the requirements for eligibility for licensure in Nova Scotia. The second year focuses on continuing comprehensive ambulatory patient care provided in the Family Medicine Centre. Selected experiences in hospital and outpatient departments are also included. The resident may be responsible for the care of his patients who require hospitalization. This year includes a twelve-week learning experience with a private family physician in one of several provinces throughout the Maritime Provinces. Candidates who complete Dalhousie's Residency in Family Medicine sit the certification examinations of the College of Family Physicians of Canada.

Suggested Textbooks: Shires and Hennen, *Family Medicine: A Guide for Practitioners of the Art*; Rakel and Conn, *Family Practice*; Medalie, *Family Medicine — Principles and Applications*; Hodgkin, *Towards Earlier Diagnosis*; McWhinney, *Introduction to Family Medicine*.

Suggested Journals: *Canadian Family Physician*, *The Journal of Family Practice*.

Medicine

The Carnegie and Rockefeller Professor and Head of Department
 R.N. Anderson

Professors

B.W.D. Badley
 B.M. Chandler
 R.A. Fox
 P.L. Landrigan
 G.R. Langley
 H.N.A. MacDonald
 R.M. MacDonald
 D.J. MacIntosh
 A.J. MacLeod

J.M. MacSween
 T.J. Murray
 A.H. Shears
 J.J. Sidorov
 L.C. Steeves
 M.H. Tan
 J. Verrier Jones
 C.N. Williams
 J.F.L. Woodbury

Associate Professors

E.C. Abbott
 R.A. Carr
 D. Chapman (major appointment in Anatomy)
 A.D. Cohen
 G.J.H. Colwell
 C.R.T. Dean
 L.A.V. Fernandez
 J.D. Gray
 J.M. Gray
 R.D. Gregor
 L.P. Heffernan
 J.G. Holland (major appointment in Physiology and Biophysics)
 D.R.S. Howell
 D.E. Johnstone
 E. Jones
 V.N. Khanna
 R.L. Kirby
 G.A. Klassen
 B.R. MacKenzie
 T.J. Marrie
 E.L. Reid
 J.B. Ross

G. Rowden (major appointment in Pathology)
 S. Salisbury (major appointment in Pediatrics)
 A.H. Shlossberg
 R.A. Singer
 R.F. Tanton
 D.F. White
 S.E. York
 C.H. Young

Assistant Professors

S. Ahmad
 D.J. Beaudin
 S.F. Bedwell
 D.M. Bowie
 B.J. Cooney
 G.C.B. Elder (major appointment in Recreation, Phys. and Health Ed.)
 P.L. Emenau
 M. Gardner
 D.A. Gass (major appointment in Family Medicine)
 M. Givner (major appointment in Pathology)
 C.A. Gordon
 M. Gorelick
 W.E. Greenlaw
 D. Haase
 E.V. Haldane (major appointment in Microbiology)
 J.H. Haldane
 S.P. Handa
 O.A. Hayne
 D. Hirsch
 D. Hogan
 B.M. Horacek (major appointment in Physiology/Biophysics)
 V. Ing
 D. King
 J. Klotz
 C. Koilpillai
 O. Koller
 L. Lalonde
 P.A. MacGregor
 N. MacIntosh
 A.R. Macneil
 D.A. Malatjalian (major appointment in Pathology)
 E.O. Mann
 J.M. Marsh
 C.W. McCormick
 J.J. McKiggan
 D. McMahan
 R.T. Michael
 T.J. Montague
 B. O'Brien
 J.J. Patil
 R.A. Purdy
 J.R. Rae
 R. Rajaraman
 R.S. Rittmaster
 K.C. Rodger
 K. Sample
 J.L. Sapp
 W. Schlech
 M.J. Scott
 I. Szuler
 E.P. Walter

Lecturers

R. Bessoudo
 J.B. Bewick
 A.W. Cockeram
 P.A. Crofts
 J. Ellsworth (major appointment in Paediatrics)
 E. Grant
 E.R. Harrision
 P.C. Joshi
 B. Knight
 R. Lodge
 N. MacDonald
 D. Marr
 M.J. McGonigal
 R.A.W. Miller
 A.H. Murray
 J.C. Pond (major appointment in Pathology)
 M. Reardon
 P.H. Reid
 B.L. Sheridan (major appointment in Pathology)
 D. Simpson
 R. Wierzbicki

Instructors

H.C. Ruperalia
 J. Smith

Academic Programs

The Department of Medicine is located in six hospitals, the Dalhousie Clinical Research Centre and the Sir Charles Tupper Medical Building. The Department's clinical teaching units are located in Camp Hill Hospital (93 active and 150 extended care beds), the Halifax Infirmary (85 beds), the Nova Scotia Rehabilitation Center (52 beds), the Saint John Regional Hospital, New Brunswick (75 beds), the Victoria General Hospital (239 beds). The Canadian Forces Hospital participates in third year and postgraduate residency training and the Prince Edward Island Hospital, Charlottetown and the Dr. Everett Chalmers Hospital, Fredericton, in the internship. The Department's Research laboratories are associated with its teaching units and are also in the Dalhousie Clinical Research Centre and the Sir Charles Tupper Medical Building.

Academic Courses

First Year Medicine

- 1. Introduction to interviewing, pathophysiology and clinical skills:** The Department provides a bedside teaching course to first-year students, one morning (3 hours) per week for most of the academic year. Several introductory sessions are concerned with the approach to and interviewing of patients. Members of the Departments of Family Practice and Psychiatry participate in this component. Subsequently, the course is concerned with the application of physiological principles to patient problems and general clinical skills. Students work in groups of six with one teacher.
- 2. System block teaching:** Through its divisions of Dermatology, Neurology, Respiriology, Endocrinology, Cardiology, Gastroenterology, Hematology-Oncology, Infectious Disease, Nephrology, Rheumatology, Immunology, Physical Medicine and Rehabilitation, the Department participates in the corresponding curriculum block teaching program and basic science-clinical correlative teaching sessions.
- 3. Electives:** The Department offers student electives in several areas.

Second-Year Medicine

1. Clinical skills medicine: The Department provides this bedside teaching course one morning a week (3 hours) throughout the academic year. Students learn clinical skills and the pathophysiology of symptoms and signs working in groups of four, by examining patients in the clinical teaching units of Camp Hill Hospital, the Halifax Infirmary, the Nova Scotia Rehabilitation Center and the Victoria General Hospital. This course is ordinarily taught through an approach both to general medicine and systems. Recommended texts: Hutchinson and Hunter, *Clinical Methods*; MacLeod, *Clinical Examinations*; Walker, Hall and Hurst, *Clinical Methods*.

2. System block teaching: This program is a continuation to that given in first year.

3. Electives: The Department offers elective opportunities in its fields of interest.

Third-Year Medicine

1. Clinical Problem Solving: This course is given throughout the academic year two mornings a week (6 hours). Students work in groups of four with a clinical teacher in the Department's clinical teaching units at the Canadian Forces Hospital, Camp Hill Hospital, the Halifax Infirmary and the Victoria General Hospital. During the first three hour morning session each student is assigned a patient and is responsible for compiling an appropriate data base using an integrated history and physical examination. This information is then used by the student to construct a medical record utilizing the Problem Oriented Medical Record. The student then does appropriate background reading and formulates a plan for solving the patient's problems. In the second three hour morning session the student presents the patient to the instructor; the data base and medical record are reviewed, the clinical clues are related to underlying pathophysiology and the plan for solving the patient's problems utilizing laboratory investigations and practical therapeutics is explored. The emphasis is on developing skills in integrated clinical data collection, constructing the medical record, case presentation, understanding pathophysiology and clinical problem solving. The basic textbook recommended for the course is: *The Principles and Practice of Medicine* by Harvey et al, supplemented by more detailed textbooks such as Harrison's *Principles of Internal Medicine* and Beeson and MacDermott, *Textbook of Medicine*.

2. System Block Teaching: The program is a continuation of that in the first and second year.

3. Electives: The Department offers elective opportunities in its fields of interest.

Fourth-Year Medicine

1. Clinical clerkship medicine: The Department offers a full-time eight-week course in its general teaching units at Camp Hill Hospital, the Halifax Infirmary and the Victoria General Hospital. The course includes comprehensive patient assessment, clinical problem solving, clinical management and therapeutics. The clinical clerk becomes a member of the treatment team, has defined and increasing responsibilities for patient care. The clerk's clinical notes become part of the hospital record. The clerk writes investigation and management orders under supervision.

Teaching is incorporated in the clinician's bedside assessment of patients which occurs daily. Seminars specially designed for clinical clerks are scheduled two hours a week. In addition, there are daily specialty conferences and seminars which are frequently of interest to clinical clerks. *Recommended texts: Harrison, Principles of Internal*

Medicine; Harvey et al., The Principles and Practice of Medicine; Beeson and MacDermott, Textbook of Medicine; Davidson, Principles and Practice of Medicine. Students must use the medical literature frequently in their patient assessment and management.

2. Clinical clerkship electives: These are available on a full-time basis, similar to the regular clinical clerkship program and are ordinarily for 4 weeks, although longer elective periods can be arranged. In addition to general clerkships as above, a number of specialty clerkships are available in Dermatology, Neurology, Respiratory, Cardiology, Gastroenterology, Hematology-Oncology, Endocrinology, Nephrology, Rheumatology, Physical Medicine and Rehabilitation, and Geriatrics.

Students have responsibilities in the inpatient clinical teaching unit and in ambulatory care.

Internship

The Department provides a straight medical internship in Medicine, participates in the rotating internship and in the straight internship in Family Medicine.

1. Straight internship in Medicine: This is a full-time course that continues for one year. The year is divided into blocks of time, usually 4 to 8 weeks, of general and specialty medicine. Teaching is incorporated into patient assessment sessions with clinical staff and in conferences and seminars held daily. The year is ordinarily integrated into the next year of postgraduate training (R11) since it is acceptable by the Royal College as a year of approved training. Prerequisites for admission include an MD from an approved medical school, Provincial Medical Board of Nova Scotia temporary licensure and previous academic performance satisfactory for this course.

2. Rotating and Family Medicine Internship: This is a full-time eight-week course of general medicine emphasizing comprehensive clinical evaluation, application of clinical and pathophysiological principles, management and therapeutics. Teaching is incorporated into patient assessment sessions held daily and daily seminars and clinical conferences.

Recommended texts: Harvey et al, *The Principles and Practice of Medicine*; Harrison, *Principles of Internal Medicine*; Davidson, *Principles and Practice of Medicine*; Beeson and MacDermott, *Textbook of Medicine*. In addition, post-graduate students must use original medical literature in patient assessment and management.

3. Internship Electives: Elective opportunities exist in General Medicine, Geriatrics and the following medical specialties -Neurology, Respiratory, Endocrinology, Cardiology, Gastroenterology, Hematology-Oncology, Physical Medicine and Rehabilitation, Rheumatology, Nephrology, Medical Intensive Care, Coronary Care Unit.

Residency Training

The Department provides an approved full general Internal Medicine training program and fully approved specialty training in Neurology, Cardiology, Dermatology, Gastroenterology, Hematology, Physical Medicine and Rehabilitation, and Rheumatology.

1. General Internal Medicine: This is an integrated four-year program using the clinical facilities of the teaching hospitals: Camp Hill, Canadian Forces Hospital, the Halifax Infirmary, the Victoria General Hospital, Nova Scotia Rehabilitation Centre and the St. John Regional Hospital (New Brunswick). The first two years are considered core clinical years of which straight internship in Medicine may be one. One of the third or fourth years is as a senior resident, the other is normally an elective.

Rotations are available in General Medicine, Neurology, Dermatology, Endocrinology, Respiratory, Cardiology, Clinical Pharmacology, Gastroenterology, Infectious Disease, Nephrology, Geriatrics, Physical Medicine and Rehabilitation, Rheumatology, and Hematology-Oncology. Trainees normally complete a rotation in each of these during their course.

2. Neurology: This is a four-year program based in the Victoria General Hospital with rotations to the Izaak Walton Hospital for Children and Camp Hill Hospital.

3. Cardiology: This is an approved program based in the Victoria General Hospital with rotations to the Izaak Walton Killam Hospital for Children.

4. Dermatology: This four year approved program based in the Victoria General Hospital is associated with the Dermatology program of the University of Ottawa. Two years of Clinical Dermatology are in the Dalhousie program, the third year in the Ottawa program.

5. Gastroenterology: This is an approved program based in the Victoria General Hospital, Halifax Infirmary and with rotations to the Izaak Walton Killam Hospital for Children.

6. Hematology: This is an approved program based in the Victoria General Hospital with rotations to the Izaak Walton Killam Hospital for Children. Rotations for laboratory hematology are provided.

7. Physical Medicine and Rehabilitation: This is an approved four-year program based in the Nova Scotia Rehabilitation Centre, with rotations available in appropriate medical and surgical disciplines.

8. Rheumatology: This is an approved program based in the Victoria General Hospital.

Microbiology

Professor Emeritus
C.E. vanRooyen

Professor and Acting Head of Department
K.B. Easterbrook

Professors

J.A. Embil
G.C. Johnston
L.S. Kind
S.H.S. Lee
D.E. Mahony
E.S. McFarlane
K.R. Rozee
D.B. Stoltz
C. Stuttard

Associate Professors

R.I. Carr (major appointment in Medicine)
T. Ghose (major appointment in Pathology)
E.V. Haldane

Assistant Professors

R.A. Bortolussi (joint appointment in Pediatrics)
M.T. Dalton
W.R. Duncan (major appointment in Medicine)

S.A. Halperin (joint appointment in Pediatrics)
A.C. Issekutz
T.B. Issekutz (joint appointment in Pediatrics)
T.J. Marrie (joint appointment in Medicine)
R.S. Martin
R. Rajaraman (joint appointment in Medicine)
W.F. Schlech (major appointment in Medicine)
A.J. Wort

Lecturers

G. Faulkner
R.S. Faulkner
A.J. MacLeod (major appointment in Medicine)

First-Year Medicine

Immunology: A class dealing with the basic theories of immunology and the immune response.

Second Year

Microbiology (Infection Block): This class covers the general principles of medical bacteriology, virology, mycology, parasitology and immunology.

Third Year

A 14-hour continuation of the Infection Block dealing with clinical microbiology and presented in lectures and tutorial sessions.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program in Medical Microbiology meeting the requirements of the Royal College of Physicians and Surgeons of Canada. Participating hospitals are the Victoria General Hospital and the Izaak Walton Killam Hospital for Children.

Classes for Dental Students

First Year: Immunology as described for First-Year Medicine.

Second Year: This class, which commences in the first trimester of Second Year and continues to the end of the year, covers the general principles of medical bacteriology, virology, mycology, parasitology and immunology. Students share the first few lectures and laboratory periods on Basic Microbiology with the Medical class, after which they continue in a separate course of Oral Microbiology.

Classes for Arts and Science Students

The Department of Microbiology provides a wide range of classes, listed below dealing with various aspects of microbiology. Students should consult the Calendar of the Faculty of Arts and Science for a full description of these classes.

Microbiology 2100A/B: Introductory Microbiology.

Microbiology 3020R: General Microbiology (see below).

Microbiology 3023A: Microbial Ultrastructure.

Microbiology 3033A: Microbial Genetics.

Microbiology 3114A: Introduction to Virology.

Microbiology 3115A: Introduction to Immunology.

Microbiology 3118B: Systematic Bacteriology.

Microbiology 4022A/B: Microbial Ultrastructure Project.

Microbiology 4024A: Microscopy.

Microbiology 4026A: The Mammalian Cell

Microbiology 4027B: The Cancer Cell

Microbiology 4033B: Advanced Microbial Genetics.

Microbiology 4114B: Virology.

Microbiology 4115B: Immunology.

Microbiology 4300R: Cellular Immunology.

Graduate Studies

The MSc program covers one to two years and comprises courses in microbiology and/or allied disciplines and research work resulting in a written thesis.

The PhD program is from two to five years duration. It involves course work as for the MSc plus research of a high calibre culminating in a thesis.

Classes for Health Professions Students

Microbiology 1100A: This class is primarily designed for the needs of nurses and other health professions, but may be taken by other interested students on request. It deals with the major groups of microbial pathogens as well as theories of immunity, infectious disease prevention and community health.

Microbiology 3020: This class is best described as General Microbiology and presents the subject broadly in a basic fashion; given throughout the year to second-year pharmacy students and other interested students on request.

Research Facilities

The Department is housed in the Sir Charles Tupper Medical Building, in the nearby Victoria General Hospital and in the Izaak Walton Killam Hospital for Children. Research in both basic and clinical microbiology and related disciplines is carried out in laboratories at these locations.

Neurosurgery

Professor Emeritus
W.D. Stevenson

Assistant Professor and Acting Head
W.J. Howes

Assistant Professor and Program Director
R.O. Holness

Assistant Professor
R.A. Langille

Professor
W.S. Huestis

Third-Year Medicine

Neurosurgery participates in third year teaching in conjunction with

neurology and neuropathology, over a six week period, in a Neurosciences Block Teaching Program for third year students with a coordinated approach to all aspects of neurological disease.

Fourth-Year Medicine

Students rotate as clinical clerks, on the Neurosurgical Service, on a weekly basis. During this period, students have an opportunity to become an integral part of the Neurosurgical Unit and obtain a broad exposure to clinical neurosurgery, or alternatively may elect to pursue in more detail some particular aspect of neurosurgery under staff supervision.

Internship

For those who have selected Neurosurgery as a part of their rotation, the intern program is planned to provide a broad exposure to the specialty, with particular emphasis on dealing with trauma and neurosurgical emergencies.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada and the American Board of Neurological Surgery.

One year of general surgical training is a prerequisite. The course provides for a year of basic science training in the neurological sciences, at least six months of pediatric neurosurgery and 24 months of adult clinical neurosurgery with progressive responsibility. A full educational program in allied neurological science fields is a part of this program. Participating hospitals are the Victoria General Hospital and the Izaak Walton Killam Hospital for Children.

Obstetrics and Gynecology

Professor Emeritus
W.R.C. Tupper

Professor and Head of Department
L.J. Peddle

Professors
R.C. Fraser
S.C. Robinson
K. Ruf (major appointment in Physiology & Biophysics)
M.G. Tompkins

Associate Professors
T.F. Baskett
L.M. Higgins
E.R. Luther
W. Moger (major appointment in Physiology/Biophysics)
I.A. Perlin
E. Rees (major appointment in Paediatrics)
D.F. Sutherland
R.D. Webster
E. Winsor (major appointment in Paediatrics)
W.D.R. Writer (major appointment in Anaesthesia)
W. Wrixon

Assistant Professors
A.C. Allen (major appointment in Paediatrics)
T.P. Corkum
N.N. Isa
J. Jeffrey

R.H. Lea
 Y.M. Ling
 R.M. Liston
 C. Nwaesei (major appointment in Paediatrics)
 M.R. Oulton
 K.E. Scott (major appointment in Paediatrics)
 M. Wilkinson (major appointment in Physiology/Biophysics)
 D. Young

Lecturers

F.W. Ahman
 E.M. Andrade
 A.E. Bent
 J. Evans (major appointment in Paediatrics)
 D.W. Johnston
 R. Loebenberg
 H.L. Lord
 C.A. Maley
 D.M. Mitton
 E. Pereira
 R. Popat
 D.F. Smith
 D.L. Stinson (major appointment in Paediatrics)
 M. Vincer (major appointment in Paediatrics)
 A. Zilbert

Clinical Instructors

C.F. Brennan	J.K. Irwin
G. Brodie	M.B. Kingston
G.B. Christie	D.A. Knickle
D.W. Cudmore	N.K. MacLennan
H.G. Good	T. Moore
R. Hegarty	D.S. Morgan
J.S. Henry	R. Saxon

The objectives of the Department are to make available a basic core of knowledge in Obstetrics and Gynecology, and, at the same time, provide sufficient opportunity for self-education.

The objectives indicate the minimum of knowledge, skills and behaviour patterns the student must attain prior to entering an internship/practice. These objectives must not be considered as all embracing, for knowledge is not static, and priority listing is dependent on many variables. The procurement of knowledge and skills defined in the objectives rests primarily on the shoulders of the medical student. The Department provides lectures, audio-visual aids, discussion groups, suggested reading material and allows the student to be actively involved in patient assessment and care.

Second-Year Medicine

In the second year the core material of the course is presented in various ways, depending on the material and teacher involved. Lectures in the Reproductive System block will guide the student in the study of the normal physiology of the female, changes that occur in pregnancy, and various diagnostic procedures.

Third-Year Medicine

In the third year the aim is to present problems involving many factors in gynecology and obstetrics, in further lectures and group discussions.

Texts: From time to time outside reading on specific topics will be recommended, but in order to be sure that the student has covered the core material, one of the following books is recommended: *Obstetrics: Essentials of Clinical Practice*, Kenneth R. Niswander; *Gynecology:*

Essentials of Gynecology, Thomas Green. For those students who wish good reference books — *Williams' Obstetrics (13th ed.)* and *Kistner's Principles and Practice of Gynecology*.

Fourth-Year Medicine

In the clinical clerkship, the student spends most of his time in the hospital, dealing with patients. The clerkship includes four weeks at the Grace Maternity Hospital (Obstetrics) and two weeks either at the Infirmary or the Victoria General Hospital (Gynecology). The clerk works as part of the medical team of clerk, intern, resident and staffman, and is given graduated responsibility in the care of patients. It is planned that there will be short tutorial periods where informal discussions are held. He attends most of the Outpatients Clinics, where he actively participates in the care of the patient.

Electives

All members of the Department are prepared to assist a limited number of students in electives of their choosing. It is preferred that the student initiate the type of elective he wishes but suggestions are made.

Internship

This is provided at the Grace Maternity Hospital, the Victoria General Hospital and the Halifax Infirmary in Halifax, St. Rita Hospital in Sydney, St. Martha's Hospital in Antigonish, Saint Joseph's Hospital in Saint John, and the Saint John Regional Hospital in Saint John, N.B., Moncton Hospital, Dr. G. Everett Chalmers Hospital at Fredericton, Queen Elizabeth Hospital in Charlottetown and Prince County Hospital in Summerside.

Resident Training

An integrated University residency training program is available in the Department consisting of a four-year program meeting the requirements of The Royal College of Physicians and Surgeons of Canada. The participating hospitals are the Victoria General Hospital, Grace Maternity Hospital, Halifax Infirmary in Halifax and Saint John Regional Hospital, in Saint John, N.B.

A formal academic program with pathology seminars, grand rounds, basic science seminars and journal clubs, functions throughout the academic year.

Ophthalmology

Professor Emeritus
 D.M. MacRae

Professor and Head of Department
 R.P. LeBlanc

Professor
 D.M. Regan

Associate Professors
 C.F. Keays
 J.H. Quigley
 M.S. Ramsey

Assistant Professors
 K.R. Beverley
 A.E. Hoskin
 G.R. LaRoche
 D.B. O'Brien
 E.V. Rafuse
 R.M. Read

Lecturers

D. Andrews
V.P. Audain
W. Beaton
L. Dayal-Gosine
M. Humayun
D. Keating

J.R. MacNeill
R.B. Pretty
R.M. Read
G.A. Sapp
G.J. Whiston

Third-Year Medicine

Students receive a course of six lectures on the diagnosis and treatment of the more common diseases of the eye. Medical Ophthalmology and the relationship of the ocular disease to systemic disease are stressed. Students also receive practical instruction in Ophthalmoscopy and Tonometry.

Text: Adler, *Textbook of Ophthalmology*; Vaughan, Cook & Asbury, *General Ophthalmology*.

Fourth-Year Medicine

Clinical clerks spend one week rotating through the Department attending general and special clinics. They are exposed to the diagnosis and management of emergency ophthalmological problems. Some time is spent reviewing audio visual material, attending rounds and observing surgery.

Text: *Ophthalmology and Study Guide*, American Academy of Ophthalmology and Otolaryngology, Inc.; *General Ophthalmology*, Vaughan, Cook and Asbury.

Internship

A 4-week experience is offered as an elective to rotating interns.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada. Participating hospitals are the Victoria General Hospital, Izaak Walton Killam Hospital for Children, Camp Hill Hospital and the Halifax Infirmary.

Other Classes

Six lectures and clinics are provided for the Outpost Nursing students.

Otolaryngology

Professor Emeritus
J.S. Hammerling

Professor and Head of Department
G.M. Novotny

Associate Professors
J.D. Donaldson
T.C. Fort
G.T. Mencher (Audiology)
F.S.H. Wong

Assistant Professors
R.S. Murphy
M.S.C. Sekaran
M.N. Wali
E.K. Walling

Lecturers

C.C. Cron
V.D. Ketene
G.F. Martin

First-Year Medicine

Topics for study electives are provided by the Department and the students guided in their program.

Residents in Otolaryngology participate in the Head and Neck part of Gross Anatomy and demonstrations as staff requirements permit.

Second-Year Medicine

Otolaryngology input is included in the Neurosciences block.

Third-Year Medicine

Lectures are given on diagnosis, treatment and pathology of diseases of the ear, nose and throat; and a half-day practicum in examination of the head and neck arranged in the clinics of the Victoria General Hospital, Camp Hill Hospital, Halifax Infirmary and the Izaak Walton Killam Hospital for Children.

Recommended texts: DeWeese and Saunders, *Textbook of Otolaryngology*; Adams, Boies and Paparella, *Boies' Fundamentals of Otolaryngology*; Hall and Colman, *Diseases of the Nose, Throat and Ear*; Stanley N. Farb, *Otolaryngology — Medical Outline Series*; V.J. Dayal, *Clinical Otolaryngology*.

Fourth-Year Medicine

One week rotation is provided through the Department for all students during which a full, supervised involvement is encouraged in patient diagnosis and management. Audio-visual programs supplement the instructions and seminars. A learning examination is arranged for the end of the "specialties rotation."

Internship

A 4-week experience is offered as an elective to rotating interns.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year rotation meeting the requirements of the Royal College of Physicians and Surgeons of Canada. Participating hospitals are the Victoria General Hospital, Izaak Walton Killam Hospital for Children, Camp Hill Hospital and the Halifax Infirmary.

Continuing Medical Education

Clinical traineeships are arranged for practicing physicians through the Division of Continuing Medical Education. The staff also participates in the Community Hospital CME Programs and the Annual Dalhousie Refresher Course.

Pathology

Professor and Head of Department
M.A. MacAulay

Professors
J.H. Cooper
B. Favara (cross appointment in Paediatrics)
T. Ghose
D.T. Janigan
G. Rowden (cross appointment, Associate Professor, Medicine)
I. Zayid

Associate Professors

G.M. Fraser
 M.L. Givner (Cross appointment, Assistant Professor, Department of Medicine)
 S. Heifetz
 J.S. MacKay
 D.A. Malatjalian (cross appointment Assistant Professor, Department of Medicine)
 J.C. Pond
 V.E. Sangalang
 A. Trillo

Assistant Professors

D. Cole (major appointment in Paediatrics)
 C.L. Cousins
 A.A. Covert
 K.C. Dooley
 L.C. Dymond
 A. Foyle
 A.D. Fraser
 S.U. Khaliq
 H.B. Lang
 S.J. Luner
 O.C. MacIntosh
 I.D. Maxwell
 R.F. McCurdy
 M.S. Ramsey (major appointment in Ophthalmology)
 B.L. Sheridan
 P. Wakely

Lecturers

A. Bernardo	M.A. Moss
S.F. Boudreau	D.M. Murphy
T.C. Coyle	N.N. Sarkar
C. Galliani	H.T. Tran
R. Gupta	E. Zayed

Instructors

S. Robertson
 J. Survis

Demonstrator

J. Cadeau

First-Year Medicine (General Pathology)

This is a course of 55 hours. It deals with the selective and co-ordinated responses of cells, tissues and organs to injurious stimuli, with particular emphasis on the role of such responses in the pathogenesis of diseases. The subject areas covered by this program are cell and intercytial injury, the inflammatory response, neoplasia, pathology of cell membranes, ageing and environment. Most of the instruction is by lectures. Learning resources, including slide programs, are made available. There are laboratory sessions which deal with selected structural changes in injured cells and tissues.

Texts: Robbins and Cotran, *Pathologic Basis of Disease*. Recommended as a general text which can be used for the pathology courses in the second and third-year medicine programs. Texts for supplemental reading are: Florey, *General Pathology*; La Via and Hill, *Principles of Pathobiology*; Movat, *Inflammation, Immunity and Hypersensitivity*; Walters and Israel, *General Pathology*.

Second and Third-Year Medicine (Special Pathology)

Instruction includes lectures and tutorials. The special pathology of the organ systems of the body is taught mainly in the second year within the framework of the pattern of curriculum blocks that has been adopted by Faculty. The emphasis in this pattern of teaching is on presenting special pathology to the student in such a way as to facilitate his learning the subject in correlation with appropriate clinical and laboratory manifestations. Clinical Chemistry forms part of the system block teaching in the third year, emphasizing the selection, interpretation and correlation in the laboratory study of disease.

Texts: Robbins and Cotran, *Pathologic Basis of Disease*.

Recommended texts for supplemental reading: Wright and Symmers, *Systematic Pathology*; Anderson, *Pathology*; Canterow and Trumper, *Clinical Biochemistry*; Kark et al, *A Primer of Urinalysis*; Gray, *Clinical Pathology*.

Electives

A program is available, by arrangement, for a limited number of students who wish to extend their learning in pathology beyond what is presented in the core program of lectures and laboratories.

Open Conferences

Available to students are a number of Departmental Conferences in the Dr. D.J. MacKenzie Laboratories. These are held weekly throughout the year and are: surgical pathology, gross autopsy pathology; liver, kidney, pulmonary, ear-nose-throat, cytological nervous system, eye, gynecologic pathology rounds, lecture courses in pathobiology, clinical medical biochemistry. Schedules are available from the Departmental Secretary.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada in Anatomical Pathology, General Pathology, Hematologic Pathology and Medical Biochemistry. Participating hospitals are the Halifax Infirmary, the Izaak Walton Killam Hospital for Children, Victoria General Hospital, Camp Hill Hospital and the Saint John Regional Hospital in Saint John, New Brunswick.

Classes for Dentistry Students

First Year: As described above for First-Year Medicine.

Second Year: A systematic survey of human disease is given with special emphasis on material directly relevant to the practice of Dentistry. The course is described in detail in the Calendar of the Faculty of Dentistry.

Graduate Studies

Graduate programs are described in the Calendar of the Faculty of Graduate Studies.

Paediatrics

Professor and Head of Department
 R.B. Goldbloom

Professors

M.M. Cohen Jr. (major appointment in Dentistry)
 B.E. Favara (major appointment in Pathology)

D.A. Gillis (major appointment in Surgery)

D.L. Roy

M.W. Spence

Associate Professors

A.C. Allen

J.P. Anderson

P. Bagnell

T.F. Baskett (major appointment in Obstetrics)

R.A. Bortolussi

P.R. Camfield

H.W. Cook

J.F.S. Crocker

J.M. Crosby

J.A. Embil (major appointment in Microbiology)

J.P. Finley

C.T. Gillespie

A.L. Goldbloom

R.S. Grant

B.D. Grover

Doris L.B. Hirsch (major appointment in Psychiatry)

E.R. Luther (major appointment in Obstetrics)

R.G. Macdonald

B.S. Morton

M.A. Nanton

H. Orlik (major appointment in Psychiatry)

A.F. Pysemany

E.P. Rees

S. Salisbury

K.E. Scott

M. Ste-Marie

D.A. Stinson

J.A.R. Tibbles

J.P. Welch

Assistant Professors

D.R. Barnard

C. Camfield

I. Carter (major appointment in Psychiatry)

D.E.C. Cole

Y. David

J.M. Dooley

J. Evans

J.G. Gatien

J. Gibson

S. Halperin

D. Hughes

A.C. Issekutz

T. Issekutz

S. Keet

G.R. LaRoche

R.M. Liston (major appointment in Obstetrics)

L.K. McNeill

C.G. Nwaesei

J.B. Ross (major appointment in Medicine)

R.D. Schwarz (major appointment in Medicine)

A. Stokes (major appointment in Psychiatry)

E.J.T. Winsor

D.M. Young (major appointment in Obstetrics)

Lecturers

K. Bloom

J. Byrne

M.E. Churchill

T.P. Corkum (major appointment in Obstetrics)

K.S. Cox

J.R. Duncan

J. Ellsworth

S. Ewing

D.N. Garey

M. Giacomantonio (major appointment in Surgery)

A. Hawkins

A. Larson

H. LePage (major appointment in Psychiatry)

D. Meek

E. Paraskevopoulos

E.D. Ross

S.S.C. Siau

P.M. Sigsworth

D. Smith

D.J. Smith

R.I. Smith

C.M. Soder (major appointment in Anesthesia)

D. Stephen

S. Sullivan

M. Vincer

J. Weckman

M. Yhap

Clinical Fellows

R.B. Foran

N.C. Giddins

M. Ogbarne

R.W. White

First Year Medicine

First-year core pediatric material on growth and development is included in a comprehensive block on human development. This block presents an overview of the continuum of human growth and development from conception to death.

A lecture program in human growth and development covers the following topics: intrauterine growth, pregnancy and delivery, measurement, nutrition, child development and behavior, family child interaction and adolescence.

To provide clinical correlations for the didactic program, a special well-baby course has been organized. First-year students, working in pairs, are assigned a newborn infant early in the year. Following discharge of mother and infant, the students visit the home at monthly intervals. They record the infant's growth in height and weight on standard growth graphs. They observe the progressive physical and behavioural development of the infant in its natural home environment and conduct standardized tests of behavioural development, recording the results. In addition, they observe parent-child interaction and the effect of the newborn on the family. A nurse and a member of the Department are available for assistance and guidance at all times.

Suggested Reference Text Books: Nelson, *Textbook of Pediatrics*; Lowrey, *Growth and Development of Children*; American Academy of Pediatrics, *Standards of Child Health Care*; American Medical Association, *Growing Pains*; Simons and Pardes, *Understanding Human Behavior in Health and Illness*.

Second-Year Medicine

The program is devoted principally to the acquisition of the basic skills of physical examination of infants and children. This program is carried out in wards of the Izaak Walton Killam Hospital for Children and in the offices of participating pediatricians.

Regular home visits to the infants whose early growth and development they observed during the first year are optional in the Second-Year schedule. The students are provided with a detailed immunization, health and social record to maintain on the family. The Department also contributes to each of the system blocks during the year.

Suggested Text Book: *Barnes, Manual of Pediatric Physical Diagnosis.*

Third-Year Medicine

Students attend one morning weekly at the Izaak Walton Killam Hospital for Children where they are introduced to the common health problems of infancy and childhood. Students, in small groups, are instructed in clinical sessions on the wards as well as in the outpatient departments. These sessions are conducted by teaching clinicians. The students also attend the neonatal nurseries of the Grace Maternity Hospital and the IWK Hospital for Children to develop experience and understanding of medical problems of the newborn infant. In addition, weekly small group discussions are held using a problem based learning approach. These sessions are designed to emphasize diagnostic, therapeutic and preventative aspects of common medical problems in children.

Suggested Text Books: *Nelson, Textbook of Pediatrics; Daeschner, An Approach to Independent Learning; Kempe, Silver, Current Pediatric Diagnosis and Treatment.*

Fourth-Year Medicine

Students attend for eight weeks at the Izaak Walton Killam Hospital for Children as part of their clinical clerkship rotation, working on the inpatient and outpatient services as well as in the neonatal nurseries of the affiliated teaching unit at the Grace Maternity Hospital. During this period the clinical clerks are members of the active ward and out-patient treatment teams, and gain considerable experience in history taking, physical examination, diagnosis and treatment of childhood disease. Ample opportunity is afforded to acquire basic skills which are necessary to the practice of pediatric medicine.

A series of small group teaching sessions emphasizing therapeutic aspects of pediatrics is held during the clerkship period, conducted by members of the Department. Clerks are also encouraged to attend the various weekly clinical case conferences held in the hospital. Evaluation sessions are held during and at the conclusion of the clerkship rotation by the clerkship clinical instructors.

Optional Text Books: *Haggerty, Ambulatory Pediatrics; Gellis and Kagan, Pediatric Therapy.*

Electives

The Department of Pediatrics offers elective programs for interested students in all years of the basic medical curriculum. Arrangements for these electives may be made through the Department early in each academic year. Arrangements for elective programs in the fourth or clerkship year, including ones at other medical schools, should be made by the students during the spring trimester of their third year.

Rotating Internship

Dalhousie rotating internships and straight internships in family medicine include an 8-week rotation in pediatrics. These pediatric rotations may include experiences at any of the following participating hospitals: the Izaak Walton Killam Hospital for Children, Grace Maternity Hospital, Saint John Regional Hospital, Dr. G. Everett Chalmers Hospital, Fredericton, New Brunswick, and St. Rita Hospital, Sydney. They are

designed for students planning to enter general practice by extending further the clerkship experience with responsibility for direct patient care.

Straight Internship

Straight internships in pediatrics are offered annually to a maximum of four trainees. They are designed for students who have made a firm decision to specialize in general pediatrics or its subspecialties. The straight internship is recognized by the Royal College of Physicians and Surgeons of Canada and by the American Board of Pediatrics as the equivalent of one year of pediatric residency training. Most straight interns plan to spend a minimum of two or three years in the pediatric program at Dalhousie. In addition to the ward and out patient responsibilities at the Izaak Walton Killam Hospital for Children, each straight intern rotates through the obstetrical service at the Grace Maternity Hospital and through pediatric surgery (in-patient and out-patient) at the IWK Hospital. As the straight intern develops increasing clinical competence, more responsibility for supervising clinical clerks and rotating interns is expected during the year. All applications for straight internship are handled through the Office of the Dean, Faculty of Medicine, Dalhousie University.

Residency Training

The Department of Pediatrics at Dalhousie University offers a four-year postgraduate training program in pediatrics. Successful completion of this residency renders the trainee eligible for the specialty examinations in pediatrics offered by the Royal College of Physicians and Surgeons of Canada, and by the American Board of Pediatrics.

The program is based primarily at the Izaak Walton Killam Hospital for Children, a 280 bed teaching hospital and pediatric research center in Halifax, Nova Scotia. This institution serves as the tertiary care pediatric referral center for the three Maritime provinces of Canada, Nova Scotia, New Brunswick, and Prince Edward Island. In addition, it serves as a community pediatric hospital for the cities of Halifax and Dartmouth. The population of the metropolitan area is approximately 260,000. The referral base in the Maritime provinces is approximately 1.5 million.

Residents also rotate to the Grace Maternity Hospital in Halifax and to the Saint John Regional Hospital in Saint John, New Brunswick. The Grace Maternity Hospital is located directly across the street from the "IWK." Among its 5,000 obstetrical deliveries per year are included all deliveries in the metropolitan area, as well as high risk referrals from all of Nova Scotia. An active Regional Reproductive Care Program encourages antenatal referrals of all high risk pregnancies. Three well-baby nurseries and an extremely busy neonatal intensive care unit provide a broad range of neonatal exposure for residents. Pediatric residents also attend all high risk deliveries.

The Saint John Regional Hospital is a new facility which has a pediatric unit affiliated with Dalhousie University. It provides secondary and some tertiary care for children from a large area of New Brunswick. Saint John is a city of 105,000. Accommodation is provided for residents who are on rotation in Saint John.

The program in pediatrics is designed to provide a well rounded experience, covering all "core" areas, but also providing time for specialization in areas of individual interest. The first two years offer the resident a variety of experiences, including emergency room, ambulatory department, general medical wards, neonatal intensive care, and infectious disease. The latter two years offer more sub-specialty rotations, so that the resident can gain particular expertise in areas such as neurology, cardiology, intensive care, gastroenterology, nephrology, endocrinology and psychiatry, among others.

There is ample time for electives, which may be spent pursuing a clinical specialty, or engaging in a research project. Many of the faculty members are actively involved in research, and resident participation is encouraged.

The training program provides "graded responsibility" to housestaff according to the level of seniority and expertise. In general, all housestaff will be on call one night in four. Each resident is permitted four weeks paid vacation per year.

The Faculty of the Department of Pediatrics has grown rapidly over the past few years. In Halifax there are 41 full-time members of the Department, and 15 part-time faculty members. Most of the latter group are general pediatricians practicing in the community. In addition, a further 19 individuals from the Departments of Dentistry, Dermatology, Psychiatry, Gynecology and Psychology have cross appointments with the Department of Pediatrics. In Saint John, New Brunswick, our faculty comprises 4 full-time and 5 part-time members. The full-time faculty have sub-specialty expertise in the following areas: biochemical genetics, cytogenetics, respirology, gastroenterology, endocrinology, nephrology, neurology, cardiology, intensive care, neonatology, hematology-oncology, infectious disease, immunology, allergy, rheumatology, and child psychiatry.

Resident Evaluation

All pediatric postgraduate trainees, including straight interns, must take the annual in-training examination of the American Board of Pediatrics. This examination, the cost of which is partially subsidized by the Department, provides valuable feedback concerning areas of strength or weakness in clinical knowledge. It also helps the Department to assess its own deficiencies or weaknesses. After each clinical rotation, an in-training evaluation report is completed and is reviewed with the trainee. The trainees are interviewed twice annually to review evaluations and general progress. The clinical skills of the resident staff are assessed regularly by means of oral and clinical examinations.

Rounds and Conferences

At the Izaak Walton Killam Hospital for Children, regularly scheduled conferences include weekly grand rounds, admission rounds, radiology rounds, journal club, and many subspecialty conferences. In addition, a core curriculum of pediatric resident seminars has been designed. Each seminar focuses on a specific pediatric topic, and is co-presented by a resident and a faculty member. A weekly schedule of pediatric conferences and teaching sessions exists at both the Grace Maternity Hospital and the Saint John Regional Hospital. All residents are subsidized to attend one approved national or international scientific meeting per year.

Continuing Medical Education

Members of the Department of Pediatrics participate in the activities of the Division of Continuing Medical Education, offering annual short courses in selected topics of pediatric interests, preceptorships for periods of two to four weeks, and special training programs tailored to individual needs of physicians interested in their own continuing education. In addition, Departmental teachers attend clinical teaching conferences at various hospitals throughout the Maritime Provinces.

Pharmacology

Professor Emeritus
J.G. Aldous

The Carnegie and Rockefeller Professor and Head of Department
P.E. Dresel

Professors
J.W. Downie
G.R. Ferrier
M.M. Vohra
T.D. White

Associate Professors

J. Gray (major appointment in Medicine)
G.M. McKenzie
K.W. Renton
H.A. Robertson

Assistant Professors

M. Karmazyn
L.A. MacDonell
B.L. Pope
J. Sawynok

The objectives of the study of pharmacology are: (a) to comprehend major pharmacological principles underlying the therapeutic and toxic actions of all drugs, (b) to learn specific pharmacology of important classes of drugs affecting each body system, their major adverse effects and drug interactions, (c) to develop a framework for the practice of therapeutics on a sound rational basis including the special problems related to the use of drugs in the aged or the paediatric population.

Second-Year Medicine

The basic principles of pharmacology as they apply to the major organ systems are presented. These principles are reinforced with a more detailed consideration of the major classes of drugs, with special reference to the mechanism of their action. The core pharmacology course is team-taught through a series of lectures and small group sessions. Contributions to the gastro-intestinal, reproduction, cardiovascular systems, renal-metabolic, infection blocks and psychiatry are designed to emphasize the application of pharmacological principles to the management of clinical problems.

Third-Year Medicine

The student's contact with pharmacology is continued through correlative sessions which bring together clinical and basic scientists to consider special topics (anesthetics, alcohols, etc.) and to reconsider the most important drugs in the special setting of their clinical use.

Electives

Opportunities for elective work in pharmacology are open to students. Laboratory (research) experience should include work during the summer months as paid summer research assistants.

Continuing Medical Education

The Department participates in this program either in planning or through presentation of lectures given at various centres in the Maritime Provinces.

Residency Training

The Department provides formal and informal sessions for residents to fulfill basic science requirements in specialty training. With approval, training in various research laboratories of the department can be arranged for residents to enhance their research skills.

Classes for Dental Students

A separate course for second-year dental students is given throughout the two semesters. It is designed to emphasize those drugs most commonly employed by dentists. However, other drugs are also discussed, especially in connection with medical problems their patients may have which are not associated with their dental problems. Drug interactions and allergic reactions are stressed.

Classes for Arts and Science Students

An introductory class is offered as a credit in the Honours BSc (Biology

and Biochemistry) programs under the designation Biology 4401, Biochemistry 4801.

Graduate Studies

Advanced work leading to the MSc and PhD degrees is offered to both science and medical graduates. The Calendar of the Faculty of Graduate Studies should be consulted.

Classes for Health Professions Students

Students registered in Third Year of the College of Pharmacy receive instruction in systematic pharmacology designated as Pharmacology 347.

Physiology and Biophysics

Professors Emeritus

B. Issekutz
E. MacLeod
C.B. Weld

The Carnegie and Rockefeller Professor and Head of Department
K.B. Ruf

Professors

J.A. Armour
M. Cynader (major appointment Psychology)
J.D. Hatcher
M. Horackova
W.T. Josenhans
G.A. Klassen (major appointment in Medicine)
T.F. McDonald
W.H. Moger
P.M. Rautaharju
R. Rosen
J.C. Szerb
M. Wilkinson
H. Wolf
A.Y.K. Wong

Associate Professors

J.D. Dudar
J.G. Holland
B.M. Horacek
J.A. Love (major appointment, Director, Animal Care Centre)
D.D. Rasmuson

Assistant Professors

C. Baker (major appointment in Saint John Regional Hospital)
A. Bonen (major appointment in School of Physical Education)
J.O. Bustamante
M. Dickie
D. Fay (major appointment TUNS)
S.P. Handa
D. Hirsch (major appointment in Department of Medicine)
D. Johnstone (major appointment in Department of Medicine)
W. Ling (major appointment in Obstetrics & Gynecology)
S. Martin (major appointment at Mount Saint Vincent University)
T.J. Montague (major appointment in Department of Medicine)
N. Morgunov
M.R. Oulton (major appointment in Obstetrics & Gynecology)
R. Rittmaster (major appointment in Department of Medicine)
S. Stroink (major appointment in Department of Physics)
N. Swindale

Lecturer

A. Corvin (major appointment in Psychiatry)

The basic aims of the Department in all its undergraduate medical teaching are:

(1) to help the student toward mastery of the functional principles which underlie the working of the different organ systems of the human body

(2) to encourage the student to develop an orderly and critical approach to the evaluation of experimental results, and to conflicting interpretations of data in the rapidly advancing field of physiology

(3) to prepare the student for the future application of his physiological knowledge to the practise of scientific medicine by exposure to different kinds of problem-solving activities.

Since the adoption of the subject-block teaching system at Dalhousie, there has been no course in the curriculum that deals entirely with physiology as such. Instead, the Department provides a major input into a number of the systems-blocks

First-Year Medicine

Physiology teaching continues throughout the year with major emphasis on the following:

Cardiovascular System: Emphasizes the experimental basis of modern concepts of CV function. Special attention is given to the electrical and mechanical behaviour of the heart, and the control of the peripheral circulation. Whenever possible examples of common clinical conditions are used to illustrate the practical use of physiological insight.

Respiration: This course has a set of very precisely defined objectives dealing with current concepts of respiratory control, the physics and mechanics of ventilation, diffusion of gases, transport of respiratory gases in the blood, and respiratory control of blood pH. Five sessions are devoted to physiological diagnosis of respiratory disorders.

Gastrointestinal: Small group discussions; problem based learning approach to physiology of digestion and absorption in the G.I. tract.

Renal-Metabolic: The essential elements of renal, fluid and electrolyte physiology are presented in 18 hours of lectures. Selected topics in membrane transport are also covered.

In addition, other sessions throughout the year deal with such topics as the physiology of cell membranes and the origin of bioelectric signals in the excitable tissues nerve and muscle, the molecular mechanisms of force generation and shortening in muscle fibres, and the principles of operation of systems using feedback-homeostatic mechanisms.

Second-Year Medicine

Among the systems covered for the first time in second-year medicine, the Department contributes a major portion to the Neurosciences and Special Senses block in the first term. As well as lectures, the course provides a series of laboratory exercises on sensory physiology and the electrophysiology of the principles of electrical recording from the brain and skeletal muscle.

Other areas with major input from the Department of Physiology are the *Endocrine* and *Reproductive* blocks.

In addition, the Department continues its instruction of Physiology in systems that have been covered previously in the first year. These are the gastrointestinal, respiratory, cardiovascular and renal-metabolic systems.

Third-Year Medicine

Physiology, along with other basic sciences, continues to be taught in

the form of lectures and correlative sessions in the primarily clinical year.

Electives

The Department offers two types of elective programs to limited numbers of medical students. (1) small research projects under the direction of staff members, and (2) investigations in some depth of published work on a topic of the student's choice, utilizing the resources of the Kellogg Health Sciences Library.

Texts: Useful reference works include the six monographs on physiology in the *Medical Yearbook Series*, and the *Handbook of Physiology* (American Physiological Society). Recommended text for second year Neurophysiology is *Principles of Neural Science* by Kandel and Schwartz, Elsevier, 1982.

Classes for Dental Students

First Year: A course in human physiology consisting of three lectures per week and tutorials (Biology 4403).

Classes for Arts and Science Students

Biology 4403 (see para. above).

Graduate Studies

The Department offers suitably qualified students an opportunity to study for the degrees of Master of Science and Doctor of Philosophy. Advanced graduate seminars and lecture courses are given in cardiovascular and respiratory physiology, endocrinology, neurophysiology and related topics. The biophysics program ranges from the investigation of the basic mechanical and electrical processes of the heart to the practical aspects of the on-line computer analysis of electrocardiograms and epidemiological studies. Control of biological systems and general systems analysis are presented as unifying principles. In cooperation with the Departments of Mathematics and Biology an MSc in biomathematics is offered as an alternative to the MSc and PhD in biophysics. A complete description of these programs is in the Calendar of the Faculty of Graduate Studies.

Classes for Health Professions and Dentistry (Dental Hygiene) Students

Instruction consists of two lectures per week, selected laboratory exercises and demonstrations.

Physiology 101C: (Section of Medical Science 100). Classes for students in Schools of Nursing, Dental Hygiene.

Physiology 102C: (Section of Medical Science 100). Classes for students in Schools of Physical Education, Health Education.

Physiology 201R: For students in School of Pharmacy.

Physiology 203R: For students in Schools of Physiotherapy and Occupational Therapy.

Neurophysiology 311B: For students in Schools of Physiotherapy and Occupational Therapy.

Exercise Physiology (Physiotherapy) 312A: For students in Schools of Physiotherapy and Occupational Therapy.

Psychiatry

Professor Emeritus
J.F. Nicholson

Professor and Head of Department

A. Munro

Professor and Deputy Head

S. Hirsch

Professors

B.K. Doane

P. Flynn

D. Hirsch

A.H. Leighton

A. Richman

W. McCormick

Associate Professors

B.S. Clark

A. Corvin

C.J. David

J. Gold

J.D. McLean

J.B. O'Regan

H. Orlik

H. Poulos

P. Reynolds

E.M. Rosenberg

A.M. Shane

A. Stokes

Assistant Professors

S.H. Akhtar

W. Birnie

I. Carter

I.A.A. deCoutere

L. Kovacs

A.W. Kushner

C.E. Taylor

Lecturers

C.M. Abbott

N.P. Allison

L.M. Buffett

K.V. Covert

J. Curtis

B.A. Doan

F. Freeman

G. Gordon

R. Howard

W. Junek

I.A. Kapkin

B. Kessler

A. Kubacki

H. LePage

D. MacDonald

W.G. MacDonald

J.V. O'Brien

E.A. Smith

M. Teehan

D. Whitby

R.V. Worling

Instructors

R. Forsythe

G. Gray

A. Hipwell

P. Pearce

K. Quirk

S. Russell

A. Ravindran

B. Spears

M.J.C. Thomson

M. Virey

W.C. Wood

N. Woulff

The objectives of undergraduate teaching in the Department of Psychiatry are: to underline the significance of psychological factors in normal human development and in illness, to enable the student to recognize psychiatric disorders, and to treat these disorders within his competence or else refer the patient for psychiatric investigation and management.

Texts: Gregory, I., Smeltzer, D.J., *Psychiatry — Essentials of Clinical Practice*; Barker, P., *Basic Child Psychiatry*.

First-Year Medicine — Human Behaviour

The program in first year is integrated into a Human Development block. In addition there is a brief course of lectures on interviewing skills in the

first trimester in which psychiatrists are involved. The psychiatric component of Human Development consists of:

1. Patient Contact — groups of 7-8 students have experience in patient contact ½ day per week for three weeks, during which the student interviews patients under the supervision of a staff psychiatrist.
2. A course of eleven lectures on life stages in which important features of human development from infancy to old age are presented.

Second-Year Medicine — Clinical Psychiatry

Case material in clinical psychiatry is started this year with lectures utilizing clinical material — actual patients, audiovisual presentations, etc. In addition, students in groups of four have a course in patient contact ½ day a week for five weeks, during which psychiatric patients are interviewed under supervision. This is correlated with the material presented during lectures.

Third-Year Medicine — Clinical Psychiatry

This is a continuation of the course in second year, during which the presentation of case material in psychiatry is completed, with particular stress on the problems that the non-psychiatric physician will encounter. This includes diagnosis and treatment in adult and child psychiatry, and indications for referral to the specialist. Teaching aids are used to accentuate the clinical content of the program. Groups of four students have patient contact ½ day per week for five weeks, two of these sessions being in child psychiatry.

Fourth-Year Medicine — Clinical Clerkship

The student spends a four-week period in the Department of Psychiatry and during this time has an opportunity to examine and to some extent participate in the treatment of patients on the inpatient wards of general hospitals, as well as the Izaak Walton Killam Hospital for Children, the Abbie J. Lane Hospital Outpatient Clinic, the Atlantic Child Guidance Centre and the Nova Scotia Hospital. The student is involved in treatment responsibility for suitable patients, under supervision.

Electives

Electives are offered in all four years, varying from a few patients assigned for individual psychotherapy, to research projects for the student.

Internship

The majority of Dalhousie interns spend four weeks of their rotating internship on a psychiatric service. During this time they are involved in a teaching program and take an active part in the treatment of inpatients in the hospitals in Halifax or Saint John as well as the Nova Scotia Hospital.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada. Participating units and hospitals are Atlantic Child Guidance Centre, Camp Hill Hospital, Centracare Saint John Inc., Halifax Infirmary, the Izaak Walton Killam Hospital for Children, Nova Scotia Hospital, Saint John Regional Hospital and the Victoria General Hospital.

Each postgraduate student spends at least two years in the central university program which is designed primarily in terms of the student's educational needs. The other two years are spent in one or the other of a variety of psychiatric or related clinical, research, or other special settings in the Atlantic Provinces or elsewhere. During this time, he is still a registered postgraduate student in the Department of Psychiatry and the Department assumes responsibility for an adequate standard of training.

Continuing Medical Education

The Department offers refresher courses (in collaboration with the Division of Continuing Medical Education) for general practitioners and specialists. General practitioners may come for a clinical traineeship in the Department of Psychiatry, and the Department takes part in the general courses offered by the Division of Continuing Medical Education.

Diagnostic Radiology

Professor and Head of Department

D.B. Fraser

Professors

B. St. J. Brown
G.E. Davis
E.B. Grantmyre
J.S. Manchester

Associate Professors

J. Aldrich
J.A. Aquino
D.R. Campbell
L.A. Fried
R.H. James

A.J. Johnson
G.E. Lund
W.F. Mason
A.D. MacKeen
L.J. Stevenson

Assistant Professors

J. Andrew
C.L. Belcourt
J. Brander
B.D. Byrne
J.S. Caines
J.R. Jackson
G.R.M. Jones
G.P. LeBrun
I.M. MacLeod

C.L. MacMillan
R.H. Martin
R.M. Miller
J.D. Moir
J. Rees
M.P. Shannon
A.J. Shaw
D.E. Yeadon

Lecturers

T. Anderson
W.F. Barton
G. Butler
W.N. Covert
C. Daniels
L. Ehrlich
B. Flemming
R. Flinn
D. Gordon

H.F. Ho
S. Jackson
G. Llewellyn
C.D. Lo
G. Mitton
W.H. Tam
D. Thompson
M. Woolnough

First, Second and Third-Year Medicine

Lectures and demonstrations are given in the various system blocks with emphasis on radiological anatomy, physiology and pathology. The student becomes familiar with the many diagnostic imaging modalities (x-ray, ultrasound, computerized tomography, magnetic resonance, and nuclear medicine) and with interventional radiology such as needle biopsy, angioplasty, percutaneous tubal drainage, and vascular embolization.

Fourth-Year Medicine

All students spend a week in the department early in the clinical clerkship. The emphasis is placed on the investigation of patient problems, using various imaging modalities, interventional diagnostic and therapeutic radiology. There is an integrated program of clinical clerkship with the other teaching hospitals.

Texts: Appleton, Hamilton, Simon, *Surface and Radiological Anatomy*.

In fourth-year, the following books are suggested reading. Squire, *Fundamentals of Roentgenology*, Meschan, *Synopsis of Roentgen Signs*, and Armstrong *X-Ray Diagnosis*.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada in Diagnostic Radiology. Participating hospitals include Camp Hill Hospital, Halifax Infirmary, Izaak Walton Killam Hospital for Children, the Victoria General Hospital, and Saint John Regional Hospital.

Fellowship Training

Clinical fellowships are available in Cardiovascular, Gastrointestinal, Neuroradiology, and General Imaging.

Radiation Oncology

Professor and Head of Department
D.H. Thomson

Professor
D.F. White

Associate Professors
J.W. Aldrich
R.M. Cunningham
J.F. Filbee
G.D. Smith

Assistant Professor
J.W. Andrew
R. Wierzbicki
O.S. Wong

Lecturers
J.C. Carson
N.E. Grant
D.M.A. Jones
J.C. Wallace

Second-Year Medicine

Three lectures on Radiation Oncology are given.

Third and Fourth-Year Medicine

Members of the department continue to participate in Oncology blocks for the curriculum. A large volume of clinical material is available for teaching purposes, both in and out, and an inpatient basis. Students attend many of the multidisciplinary clinics in conjunction with other departments.

Electives

In third and fourth-year electives are available on the request of the student.

Internship

Radiation Oncology is offered as an elective. A four week period is spent in the Cancer Treatment and Research Foundation of Nova Scotia, Halifax Clinic and the Victoria General Hospital. The duties and assignments allow an overview of the management of all forms of malignancy.

Residency Training

At the present time the four year program leading to Fellowship of the Royal College of Physicians and Surgeons of Canada is in abeyance. Lectures and seminars are given to residents in other specialties in preparation for the Fellowship examination.

Surgery

Professor Emeritus
G.W. Bethune

Professor and Head of Department
B. Perey

Professors
H. Bitter-Suermann
D.A. Gillis
G. Konok
D.A. Murphy
S.T. Norvell
R.H. Yabsley

Associate Professors

A.J. Bodurtha	D.M. Nicholson
M.T. Casey	W.S. Parkhill
W. Duncan	D.P. Petrie
C.E. Kinley	J.F. Ross
H. Lau	A.M. Sinclair
A.E. Marble	B.J. Steele
A.S. MacDonald	D.V. Willoughby
W.D. Miller	C.K. You
J.A. Myrden	

Assistant Professors

D. Alexander	R.W. Landymore
C.R.B. Auld	A.C. MacDonald
D.C.G. Bethune	A.G.P. McDermott
G.W. Bate	D.E. Morris
D.C.S. Brown	T.M.F. Roberts
C. Bugden	P.D. Roy
A.J. Buhr	H.M. Simms
F.G. Dolan	W.D. Stanish
M. Erdogan	G.E. Stiles
C.H. Graham	J.A. Sullivan
R.B. Higgins	J.O. Sundin
J.C. Hyndman	A. Tweed
M.O. Iype	B. Vair

Lecturers

J.D. Amirault	S. Green
D. Beattie	W. Henderson
A.N. Boulos	J.L. Leahey
G.R. Burns	G. Reardon
L.W. Caines	G. Sparkes
J.P. Curry	W.J. Stephen
C. DelCampo	S. Stepkowski
R.E. Englund	K.L. Wilson
M. Giacomantonio	

The Department provides basic instruction in those diseases which fall within the field of surgery. Opportunities are provided to students so that they may become familiar with patients having surgical diseases, their diagnosis, investigation, and treatment. Students may pursue elective or research studies if they so desire.

First-Year Medicine

The Department participates with other departments, in correlation sessions.

Second-Year Medicine

The Department participates in the various blocks of the curriculum providing instruction in certain surgical conditions. An introductory course in patient contact is given consisting of six sessions. These are meant to compliment the other patient contact sessions in the first and second year medicine. Also this provides an introduction to the methods used in the third year surgical patient contact. Instruction is provided in basic history taking and physical examination of patients with surgical diseases.

Third-Year Medicine

Members of the Department continue to participate in various blocks of the curriculum, i.e. gastro-intestinal, musculo-skeletal, cardio-vascular, oncology, respiratory and immunology. An extensive surgical patient contact program is conducted consisting of 45 sessions throughout the year. These sessions are intended to give the student the greatest possible exposure to patients with surgical diseases. An opportunity is provided to become proficient in history-taking and demonstrating physical signs. The methods of investigating these diseases and the principles of management are discussed. Learning examinations are held in order that the student may evaluate their progress throughout the year. A "procedures laboratory" class is held and the Department participates in this program. It is designed to familiarize the student with certain technical or manual skills which are necessary in dealing with patients in the clerkship and interning.

Fourth-Year Medicine

Students are assigned to the Department for a period of eight weeks. They are placed in two surgical teaching units for a period of four weeks each. They become an integral part of the surgical team caring for patients with surgical diseases. The principles of surgery should be reviewed and applied to the patient opportunities presented. Limited patient responsibility under supervision is experienced at this time. The complete spectrum from history, physical findings, investigation and management is covered. This is a further step in the preparation for a surgical rotation at the intern level.

Electives

In the Third and Fourth Years these periods are decided upon by discussion between the student concerned and the Head of the Department and may involve a specific program of clinical research, activities in the emergency department, reviews of a specific type of disease treated in the teaching units of the teaching hospitals, or other projects as suggested by the students concerned.

Internship

Internships are provided by the Department through their various teaching unit services in affiliated hospitals. For the rotating intern two rotations of four weeks each is provided. The intern becomes an integral member of the surgical team. Experience is gained with patients having trauma, infections, tumors and critical illnesses. An in-depth appreciation of illness and the responsibility for continuity of care is stressed.

Anatomy, pathology, biochemistry, pathology and physiology are correlated with the diagnosis and management of surgical diseases. Opportunities are provided for students wishing to take on elective rotation in any of the surgical disciplines.

Residency Training

An Integrated University Residency Training Program, in the disciplines of General Surgery, Orthopedic Surgery, Cardiovascular and Thoracic Surgery, and Plastic Surgery is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada. Participating hospitals include the Victoria General Hospital, the Halifax Infirmary, the Izaak Walton Killam Hospital for Children, Camp Hill Hospital, Canadian Forces Hospital and Saint John Regional Hospital, and St. Joseph's Hospital Saint John, New Brunswick.

The general surgical program is designed to train either community or academic type surgeons. The first two years are spent in general surgical and subspecialty rotations such as orthopedics, neurosurgery, plastic surgery, gynecology, basic science, research, etc. The final two core years are spent within the Department.

The Division of Orthopaedic Surgery conducts a four-year program. During the first year, residents rotate through such specialties as Plastic Surgery, Neurosurgery, ICU, and Cardiovascular Surgery.

Elective rotations are available during this period of time. The three core years of Orthopaedic Surgery are designed for the resident to gain experience in Adult, Paediatric and Traumatic Orthopaedic Surgery.

The division of Plastic Surgery is similar in that the first two years are spent in general surgical rotations with particular reference to those subspecialties that are appropriate to plastic surgery.

The division of Cardiovascular and Thoracic Surgery offers an approved training course leading to certification as a specialist in Cardiovascular and Thoracic Surgery.

A formal academic program, in each specialty, with pathological seminars, grand rounds, basic science seminars, journal clubs, weekly writing of questions, etc., functions throughout the year. Residents attend at least one medical meeting a year, in their discipline, outside Halifax.

Continuing Medical Education

The Department sends its members to various centres throughout the Maritime provinces at the request of the Division, for meetings, conferences, etc. This is an important function in that it is now realized that continuing medical education is essential for the continuing competence of the graduate doctor.

Texts: Christopher, *Textbook of Surgery*; Way, *Current Surgical Diagnosis & Treatment*, Adams, *Outline of Orthopedics*, Adams, *Outline of Fractures*.

Urology

Professor Emeritus

C.L. Gosse

Professor and Head of Department

S.A. Awad

Professor

F.G. Mack

Associate Professors

R.B. Auld

P. Belitsky

A.E. Chesley
 J.W. Downie (major appointment in Pharmacology)
 W.A. Ernst
 S.G. Lannon
 O.H. Millard

Adjunct Professor
 K.J. MacKinnon

Assistant Professors
 R.W. Norman
 R.D. Schwarz
 H.A. Sullivan
 H.D. Tewari

Lecturer
 S.H. Yoon

First, Second and Third-Year Renal-Urology Training

Renal-Urology teaching is an integrated program from first year through the clinical clerkship. Supervision and teaching is multi-disciplinary and includes members of the basic sciences and clinical departments. The structure and function of the normal urinary tract is taught during first-year medicine. The application of normal physiology and anatomy to clinical practice is introduced. During second year, the emphasis shifts to the disease processes and the effect these have on normal kidney and urinary tract function. The clinical presentation of disease is initiated but becomes the major portion of the third-year teaching program. At this stage, the major emphasis is directed toward the clinical presentation of disorders and the approach to investigation and treatment of clinical problems. Small group sessions are used. The student is thus prepared for his clinical clerkship.

Fourth-Year (Clinical Clerkship)

Objectives of the clerkship are 1) to develop clinical familiarity with common urological diseases and 2) to gain experience in the evaluation and management of patients who have multiple medical problems in association with their urological disease. The student spends a block of two weeks in the Department of Urology either at the Victoria General Hospital or the Halifax Infirmary. The student evaluates a high volume of patients both in hospital and in the outpatient department and is responsible for formulating the patient problem(s), making a diagnosis and planning management. Formal teaching sessions include the grand rounds and small group seminars as well as the general urology clinics, tumor clinic and other special clinics. Electives are available for further in-depth study.

Reference Texts: *Lecture Notes on Urology*, John Blandy —Blackwell Scientific 1977. *General Urology*, Donald R. Smith; *Lange Series*.

Internship

Urology is offered as an elective. The four-week period can be spent at the Victoria General Hospital, the Halifax Infirmary or the Saint John Regional Hospital. The duties and assignments have been designed specifically to prepare the intern for general practice.

Residency Training

An integrated University residency training program is available in the Department, consisting of a four-year program meeting the requirements of the Royal College of Physicians and Surgeons of Canada and the American Board of Urology. A wide exposure to a variety of surgical procedures is provided. Participating hospitals include the Victoria General Hospital, Halifax Infirmary, the Izaak Walton Killam Hospital for

Children, Camp Hill Hospital and the Saint John Regional Hospital. A research year can also be arranged.

Division of Continuing Medical Education

Director and Assistant Dean
 R.W. Putnam

Assistant Directors

M. Fleming
 I.E. Purkis (major appointment in Anaesthesia)

Administrator

D. Goldsmith

Continuing Medical Education programs have been presented by the Faculty since 1922 with the introduction of the annual Dalhousie Refresher Course. Most members of Faculty participate in the activities of the Division. Subject material is predominantly clinically oriented, to be of practical value to the practicing physician, and ranges from research to applied therapeutics. Teachers and learners actively participate in the planning, performance and evaluation of each program. A regular series of programs, some lasting a full day, are held in forty Maritime community hospitals. An increasing number of "short courses," lasting from 1 ½ to 3 days, are held in Halifax for family doctors and specialists. Particular emphasis is placed on the development of clinical traineeships, which are specifically individualized learning experiences of two weeks or longer duration. The Friday at Four program is designed by the Division of Continuing Medical Education on behalf of the Faculty of Medicine to free a block of time for joint faculty and student continuing education. This program consists of a two to three day departmental involvement and Scientific Basis of Medicine Lecture by a visitor of national or international renown, presentations by the Dalhousie Research groups and student-sponsored activities. The Friday at Four series enables the students to witness faculty engaging in continuing medical education activities and to participate with them.

Consultative services in Continuing Medical Education are available to medical organizations. The division coordinates the educational program for Advanced Cardiac Life Support training and the Scientific Assembly of the College of Family Physicians in the Maritimes. Research in medical education about effective teaching/learning methods, program planning and evaluation is actively pursued. Particular emphasis is being placed on developing methods that encourage individual physicians to take an active part in designing, conducting and evaluating their own continuing education.

Audio-Visual Division

Director
 D.A. Gibson

The Audio-Visual Division, situated in the basement of the Sir Charles Tupper Medical Building, provides an audio-visual service to the Faculty of Medicine on campus and in the associated teaching hospitals. The Division prepares teaching slides, diagrams, and television programs used in classroom teaching and as self-study resources. The development of self-learning resources is being undertaken in association with the Kellogg Health Science Library. The Division is also

responsible for the maintenance of the audio-visual systems and equipment in the Tupper Building, and is available to give assistance in the preparation of audio-visual programs. The Division supports the research activities of the Faculty of Medicine by preparing diagrams and illustrations for publication and slides for presentation at scientific meetings. Photographic and television facilities are available to faculty, staff, and students, and advice is available on technical questions, and the use of these media.



1967 to present - the Sir Charles Tupper Medical Building

Scholarships, Prizes and Financial Aid

Entrance Scholarships and Bursaries

A number of scholarships and bursaries are offered to students on admission who satisfy the following conditions:

1. They must be *bona fide* residents of one of the three Maritime Provinces.
2. They must have completed the academic and other admission requirements or be engaged in work which will complete these requirements at the end of the academic year.
3. While selection depends primarily upon scholastic ability, the Admission Committee may go beyond this in making bursary awards.
4. They must file their application on a form provided by the Faculty of Medicine, part of which is to be completed and signed by the Dean of the Faculty they are attending, or of the Faculty from which a degree has already been received by the applicant. A completed bursary information form is a required part of any application.
5. Applications will be received up to June 1, addressed to the Dean of Medicine.
6. The awards are made as soon as possible, subject to the acceptance of the applicant by the University for admission to the first year of the medical course in the year of award and his registration as a student at the regular date in September.

James A. Wardrope Entrance Scholarship: This scholarship, is the income of an endowment given by the late Dr. M.J. Wardrope in memory of his son. The scholarship is to be awarded to a student of high standing entering first year Medicine at Dalhousie University. (Applications are made under the same regulations as for University Entrance Scholarships above, deleting the first paragraph.)

Etta and Frederick Ross Memorial Bursary: A fund has been established by Dr. James F. Ross in memory of his parents, the income of which is to be used to enable a deserving student to attend the Faculty of Medicine of Dalhousie University.

Medals and Prizes

Dr. C.B. Stewart Gold Medal in Medicine: Awarded annually, on graduation, to the student standing highest in the regular medical course who has reached the high standard set by the Faculty for that purpose.

MD with Distinction: Awarded to students who have, on graduation, reached a high standard set by the Faculty for that purpose.

Dr. Clara Olding Prize: This prize, the interest of an endowment of \$1,000 given by the late Dr. A.M. Hebb, of Dartmouth, as a memorial to

his wife, is awarded annually to the student making the highest aggregate in the examinations of fourth year, character and previous scholarship being taken into consideration.

Dr. John F. Black Prize: This prize, from the income of a bequest by the late Dr. John B. Black, a former Professor of Surgery, is awarded at the completion of the fourth year to the student who reaches the highest standing in Surgery.

Andrew James Cowie, MD, Memorial Medal: This medal, founded by the late Miss Florence J. Cowie in memory of her father, is awarded each year to the member of the fourth year class having the highest standing in Obstetrics, provided his standing in other subjects is sufficiently high to justify an award.

Dr. J.C. Wickwire Medal: This award, established by Dr. J.C. Wickwire is to be awarded to the graduating student who has displayed high competence in Patient Contact over the four year course.

Dr. A.F. Miller Prize: A prize presented by the late Dr. A.F. Miller of Kentville, will be awarded to a student in medicine who submits as part of his elective the best written review in the field of respirology. If in the judgement of faculty no review of sufficient merit is submitted in this field, the prize may be awarded for review in an alternate area.

Department of Surgery Essay Prize: A prize is awarded at the end of fourth year for the best essay written on a subject related to surgery. A number of suggested topics are made known to the students in fourth year.

Poulenc Prize: A prize, the interest on an endowment given by Poulenc Limited, will be awarded to the student standing highest in the final examination in Psychiatry in the fourth year.

Prize in Medicine: A prize is awarded to the student at the completion of fourth year who has had the highest standing in all examinations in Medicine in Second, Third and Fourth Years.

Dr. John W. Merritt Prize: A prize presented by Mrs. Merritt in memory of her husband, Dr. John W. Merritt, Associate Professor of Surgery. This prize is offered to the student standing highest in Surgery throughout the four years in medicine.

Dr. Albert A. Schwartz Prize: This prize is awarded at the end of fourth year to the student who has written the best essay on a subject related to orthopedics.

The Arthritis Society Prize: The Nova Scotia Division of the Canadian Arthritis Society offers an annual prize of \$250 to a third year student for the best essay on a subject dealing with disorders of the locomotor system.

Dr. Gordon B. Wiswell Prize: An annual prize presented by the Department of Pediatrics in memory of Dr. Gordon B. Wiswell, Professor of Pediatrics from 1942-1959. The prize is to be awarded to the Fourth Year student showing the greatest distinction in pediatric studies.

Doctor W.H. Hattie Prize in Medicine: A prize initiated anonymously by the late Dr. Hattie when he was Assistant Dean, and perpetuated in his memory by Dr. Carl K. Pearlman of California, who was a recipient of the award in 1937, will be awarded at the completion of fourth year to the student who reaches the highest standing in Medicine.

Dr. Frank G. Mack Prize in Urology: An annual prize presented in memory of the late Frank G. Mack, professor of Urology (1922-1950). The prize is to be awarded by the Department of Urology to the fourth year student showing excellence in Urology.

General Electric X-Ray Corporation Prize: An annual award to a fourth year student who has taken an elective in Radiology and who, following submission of a short paper summarizing this elective experience, is judged by that Department most suitable to receive the award on the basis of evaluation while in the elective program.

Doctor Lawrence Max Green Memorial Award: This award to be presented to the student who, during his clerkship in obstetrics and gynecology, has best displayed the characteristics of compassion and clinical competence. Selection of this student is the responsibility of the Department of Obstetrics and Gynecology.

Dr. Morris Jacobson Memorial Prize: This prize is to be presented to an undergraduate medical student who has an interest in Family Medicine and has achieved scholastic standing in this field.

Burke Fullerton Award: An award provided by the Nova Scotia Chapter of CFPC in the amount of \$100 to the student who shows the greatest promise in Family Medicine in fourth year.

University Prizes: A total of \$2300 will be awarded in prizes in each of the first, second, and third years of the regular medical course. The prizes will be based on academic standing in the final examinations. In each year they may vary in number from four to seven and in amounts from \$100 to as high as \$1000.

Charles E. Frosst Scholarship: The award of \$500, contributed by Charles E. Frosst and Company of Montreal, is awarded annually at the completion of the third year to a student entering the fourth year who has shown general proficiency throughout the course.

Dr. Joan Crosby Scholarship: A scholarship of \$2000 has been established by a group of parents in honour of Dr. Joan Crosby for her exceptional dedication to the care of children. It is awarded to a deserving medical student in first or second year of study.

J. Randolph Murchison Memorial Scholarship: A scholarship donated in memory of the late J. Randolph Murchison of Prince Edward Island to be given to a needy medical student from Prince Edward Island.

The Doctor Walter Templeman Scholarship or Bursary: The income from this endowment is to be awarded to a needy medical student.

Harold Barnett Scholarship: A scholarship will be awarded annually to the student who has attained the highest standing in Respiratory Physiology.

Dr. Mabel J. Goudge Prize: The prize established by the late Dr. Mabel J. Goudge is to be awarded to the top female medical student in each of the four years.

Bristol Laboratories Prize: Bristol Laboratories of Canada has made available to a third year student an annual prize for the purchase of books with value of \$125. Both need and academic performance are to be considered in the award. The fields of therapy and pharmacology are to be covered in the selection of the books.

Department of Surgery Prize: A prize is awarded to the student in the third year with the highest standing in the final examination in Surgery.

Dr. W. Sidney Gilchrist Prize in Preventive Medicine: A prize of \$100 presented annually by the Dalhousie Medical Alumni Association in memory of Dr. W. Sidney Gilchrist, a graduate of this Faculty who was, for many years, a medical missionary in Angola. The award, to a third year student, is based on the academic standing in Preventive Medicine over the prior three years and on overall performance in the Patient Contact — Year III, Family Medicine Program.

Dr. Carl K. Pearlman Prize in Urology: An annual award of approximately \$100.00 to the student in the Third Year judged by the Department of Urology as having the highest academic standing in Urology.

Dr. Kenneth Hall Memorial Psychiatry Prize: The prize, in memory of Dr. Kenneth Hall is to be awarded to a student in third year with the highest mark in psychiatry.

Merck, Sharp and Dohme Scholarships: A scholarship of \$500 awarded annually to a third year medical student who has shown outstanding achievement in the subject area of therapeutics.

Canadian Foundation for Ileitis and Colitis Award: An award, presented by the Canadian Foundation for Ileitis and Colitis, to the student in third year with the highest standing in the field of gastroenterology.

C.V. Mosby Company Prizes: The C.V. Mosby Company offers three prizes of books to be awarded annually to students with highest standing in the final examinations of the second year and third year.

Morris and Sarah Gold Award: This award of approximately \$500 is to be presented to an undergraduate medical student who most distinguishes himself in the field of medical literature.

Dr. J.V. Graham Prize: A prize, the income of a bequest by the late Dr. J.V. Graham, will be awarded to a student at the end of the second year who has attained the highest aggregate in the first and second year Anatomy course.

Professor John Cameron Prize in Anatomy: This prize is the interest on an endowment given by the late Dr. John Cameron, former Professor of Anatomy. It is awarded to the student who makes the highest marks in Anatomy.

Roberta Bond Nichols Memorial Prize: This prize, in the form of a book voucher, represents the interest in a fund initiated by the Nova Scotia Branch of the Federation of Medical Women of Canada as a memorial to Dr. Roberta Bond Nichols, and is awarded annually to the woman medical student having the highest standing in Anatomy.

CIBA Collection Award: A set of five volumes of the Netter Medical Illustrations, the annual gift of the CIBA Company Limited, is awarded to the student who has the second highest standing in Anatomy.

Upjohn Company Award: An award in the amount of \$300 presented by Upjohn Company of Canada, to be presented to the student in Second Year Medicine who has attained the highest standing in Infectious Diseases.

Lange Book Awards: Lange Medical Publications offers book awards to two students with high standing in each of the upperclasses in Medicine.

Ishiyaku Book Prize: A book prize for the amount of \$75. will be awarded to a first year medical student for the purchase of books.

Dalhousie Medical Students' Society Prize: Four prizes of books to the value of \$25 are awarded annually to students of the second, and fourth years in Medicine on application to the Dalhousie Medical Students' Society; financial need, academic standing, and activity in student affairs are considered.

The Max Forman Research prize: This prize, derived from the Max Forman Research Fund, recognizes excellence in medical research with the aim of promoting and encouraging its pursuit in the School of Medicine, Dalhousie University. The annual award is open to all junior (students, interns, residents and fellows) investigators in the faculty of Medicine.

Bursaries

It is necessary to apply for these awards. Information may be obtained at the Office of the Dean of Medicine or at the Awards Office, Arts and Administration Building.

The John George and Emily MacDougall Bursaries: Under the terms of the will of the late Doctor John George MacDougall, formerly a senior surgeon of the Faculty of Medicine and at the Victoria General Hospital, a perpetual trust fund was established, the income from which is to be used for "such deserving persons who being...undergraduates of the Medical School of Dalhousie are...most entitled to assistance on the grounds of worth and necessity." The number of bursaries annually available is estimated to be from twelve to twenty ranging in value from \$250 to \$1000.

William Isaac MacDougall Fund: Under the will of the late Andrena Frances MacDougall, a fund was set up to provide "scholarships in the Medical School of the University." Further particulars of the terms and conditions of award may be obtained from the Dean.

The IODE John Stewart Chapter Bursary: A bursary of \$350, awarded to a Nova Scotia student who at the completion of the second year shows proper academic standing and need of financial assistance.

The A.B. Wiswell Bursary: This bursary of approximately \$150, established by the late Dr. A.B. Wiswell of Halifax, is to be awarded to a student completing the first year of the regular medical course. Character and financial need are to be considered, but the standing of the candidate in his class is the primary consideration.

The Dr. Hector J. Pothier Bursary: A bursary donated in memory of the late Dr. Hector J. Pothier of Beaver River, Nova Scotia to be given to a needy student in medicine who has expressed an interest in spending time as a family physician in a rural community.

The Dr. Elizabeth Catherine Weld Memorial Bursaries: A bursary or bursaries of approximately \$1000 to be awarded each year to medical students of any year with preference to be given, but not restricted, to minorities and those in need.

Order of the Eastern Star, Halifax Chapter 7 - Medical Student Bursary: A bursary to be awarded to a needy medical student.

Marion E. and Frank A. Seaman Bursary: This bursary of approximately \$750 in memory of the late Marion E. and Frank A. Seaman, is to be awarded to a student who has completed the first year of Medicine. The primary considerations are to be need and scholastic standing.

The A.R. Merle Smith Bursary: A bursary or bursaries to be presented to a student(s) who has or have graduated from Bathurst High School who, having completed the first year in the Faculty of Medicine, is or are enrolled on a full-time basis in the second or a subsequent year in the faculty.

Doctor R.M. Pendrich Scholarship: The income from an endowment to be awarded to the student from New Brunswick who, in the opinion of the University, has demonstrated need and merit with preference given to students who reside in West Saint John, New Brunswick.

Loan Funds

Faculty of Medicine Loan Funds: Any medical student in financial need may apply for loan assistance, but ordinarily preferred consideration is given to students in the Second, Third, and Fourth Years. Interviewing and processing are done through the Awards Office. Forms are available in the Office of the Dean of Medicine. A loan made becomes due on June 1st of the graduating year and bears interest from that date until paid. Since the amount available in each year to loan to medical students is dependent on what is annually returned to the Fund, students are earnestly requested to plan to make the repayment of these loans their first financial priority after graduation, in order that other students may have the use of the funds. The capital of the Loan Fund, as well as coming from University sources, has been substantially built up through the generosity of the *W.K. Kellogg Foundation* and *The Pfizer Canada Division of the Pfizer Corporation*. Additional sums were made available in the *Dr. J.V. Graham Memorial Loan Fund*, established by the family of the late Dr. J.V. Graham for a student in First or any subsequent year; the *Malcolm B. Dockerty, MD Loan Fund*, preferably given to a student in Fourth Year who is a native of Prince Edward Island; and the *Dr. S. Barton Sklar Loan Fund*, established by Carl Wellish (MD Dalhousie, 1963) for "qualified medical students of limited financial resources."

Maude Abbott Memorial Scholarship Loan Fund: Information regarding these loans, to women medical students, may be obtained from: The Secretariat, Federation of Medical Women of Canada, CMA House, 1867 Alta Vista Drive, P.O. Box 9502, Ottawa, Ontario, K1G 3U2.

The Canada Student Loan Plan: Loans available to students under the Canada Student Loan Plan are considered by an agency in each province. Canadian students should apply to the appropriate agency in the province where they or their parents reside. For further information write to the Director of Awards, Dalhousie University.

Postgraduate Medical Prizes and Fellowships

The Ross Stewart Smith Memorial Fellowship in Medical Research: This fellowship is the interest on a bequest to Dalhousie University by Dr. James Ross Smith and his wife, the late Mrs. Eliza Cochran Smith, as a memorial to their son, Ross Stewart Smith, who died while attending Dalhousie. It is open to students of exceptional ability following graduation from the Faculty of Medicine at Dalhousie. The research may be in clinical medicine or in the basic medical sciences. Application should be made to the Dean of Medicine.

Killam Postgraduate Medical Scholarships: These scholarships were established by the late Mrs. Izaak Walton Killam. They are awarded to postgraduate students in the third, fourth, or fifth year of training in a clinical department of the Faculty of Medicine at Dalhousie or elsewhere. Selection by the Faculty Awards Committee is based on the recommendation of the department head that the candidate is likely to contribute to the advancement of learning or to win distinction in his specialty and could be recommended for appointment to the faculty of a medical school on completion of his training.

The Percy Hermant Fellowship in Ophthalmology: A fellowship of \$1,000, the gift of The Imperial Optical Company, for postgraduate training in ophthalmology. Candidates are usually to be graduates in Medicine of Canadian universities who intend to practise this specialty in Canada.

Research Fellowships

Foundation Fellows: These fellowships are available to medical graduates or graduates of recognized PhD programs to undertake postgraduate training at Dalhousie in basic and clinical science for a period of two to three years. Support will also be extended to postdoctoral fellows already at Dalhousie when such support would advance research in the Faculty of Medicine and the research programs of a faculty member. Preference will be given to candidates who have potential to contribute to academic medicine in the maritime provinces of Canada. The level of support will be determined by the number of years of training following graduation based on MRC scales for fellowships (for PhD's) or on resident scales of pay for MD's. Deadline for receipt of applications is 1 May and 1 October or as funds and circumstances permit.



Lord Lister's Carbolie Spray

Academic and Administrative Staff 1985-86

Dean

T.J. Murray, MD (Dal), FRCP(C)

Associate Deans

Mason, W.F., MD (Dal), FRCP(C), Postgraduate Medical Education

Moffitt, E.A., MD (Tor.), FACG, FRCS(C), Clinical Affairs

Reid, Byron L., MSc, MD (Dal), CCFP, Student Affairs and Admissions

S.C. Robinson, MD (Tor.), FACG, FRCS(C), Curriculum and Evaluation

Assistant Dean

R.W. Putnam, MD, CCFP(C), Continuing Medical Education

Senior Administrative Officer

Lorne F. Ferguson

Administrative Staff

Judy W. Blackburn, Evaluation

Barbara L. Blauvelt, Alumni Relations

Brenda L. Detienne, Student Affairs and Admissions

Barbara Hinds, Public Relations

Bruce Holmes, Education Development

Yvonne Holmes, Research

Sheila Johnson, Curriculum and Electives

Madonna MacDonald, Personnel

Brian MacDougall, Finance

Linda Moxsom, Executive Assistant to the Dean

Carol Pooley, Postgraduate Medical Education

Pat Portman, Surveys and Selections

Dalhousie Medical Research Foundation

Peter C. Gordon, MD, Executive Secretary

Maureen MacLellan, Administrative Secretary

Rhonda Wessel, Secretary

Faculty Council 1985-86

P. Belitsky

P.J. Dolphin

G. Ferrier

D. Gass

M.M. Hansell

D. Imrie

T. MacDonald

E.S. MacFarlane

R. McCurdy

E.V. Rafuse

W. Schleich

M. Ste. Marie

Ex officio: President, Dean, Associate and Assistant Deans, Secretary, President of Medical Students' Society, President of Intern Resident Association of Nova Scotia, Coordinator, Medical Education, N.B.

Professors Emeriti

Aldous, J.G., MA (UBC), PhD (Tor.), Professor of Pharmacology (1945-1981)

Bethune, G.W., BSc. (Acadia), MDCM (Dal), FRCS(C), FACS, Professor of Surgery (1959-1985)

Gosse, C.L., BSc, MDCM (Dal), FACS, FRCS(C), Professor of Urology (1946-1977)

Hammerling, J.S., BSc, MD (NY Med. Coll.), FACS, Professor of Ophthalmology (1952-1973)

Issekutz, Bela, MD (Szeged), DSc (Budapest), Professor of Physiology, (1967-)

MacLeod, E.J., BA (Acad.), MDCM (Dal), Professor of Physiology (1961-1976)

MacRae, D.M., BSc, MDCM (Dal), CRCS(C), FCCP, Professor of Ophthalmology (1938-1975)

Macpherson, L.B., BSc (Acad.), PhD (Tor.), MBE, DSc (Acad.), LLD (Dal), Professor of Biochemistry (1952-1978)

Nicholson, J.F., BSc, MDCM (Dal), FRCP(C), Professor of Psychiatry (1951-1981)

Ross, E.F., BSc, MDCM (Dal), FACS, FRCP(S), Professor of Surgery (1968-1973)

Saunders, Richard L., de CH, MDChB (Edin.), FRS(E&SA), FRSA, Professor of Anatomy (1938-1973)

Stevenson, W.D., MD (Tor.), FRCS(C), Professor of Neurosurgery (1948-1978)

Stewart, C.B., OC, BSc, MDCM (Dal), MPH, Dr.PH (J.H.U.), FAPHA, FRCP(C), MCFP, LLD (UPEI), DSc (St.F.X.), LLD (Dal), Professor of Epidemiology (1946-1978)

Tupper, W.R.C., BSc, MDCM (Dal), FACS, FICS, FRCS(C), FRCOG(Eng.), FACOG, Professor of Obstetrics & Gynecology (1958-1981)

vanRooyen, C.E., MDChB, DSc (Edin.), FRCP, FRCP(C), FRC Path., FRS Can., Professor of Microbiology (1956-1973)

Weld, C. Beecher, MA (UBC), MD (Tor.), LLD (Dal), FRC Can., Professor of Physiology (1936-1968)

Active Staff

Abbott, C.M., MD (Dal), FRCP(C), Lecturer, Psychiatry, Suite 1010, 5991 Spring Garden Road

Abbott, E.C., MD (Dal), FRCP(C), Associate Professor, Medicine, Camp Hill Hospital

Abraham, T.M., MBBS (Kerala, India), Clinical Instructor, Psychiatry, 14 Brookfield Avenue, Dartmouth, N.S.

Ahmad, Sirah, MBBS (Peshawar), MRCP(Eng.), FRCP(C), Assistant Professor, Medicine, 5880 Spring Garden Road, Halifax, N.S.

Ahman, F.W., MD (UWO), FRCS(C), Lecturer, Obstetrics & Gynecology, Suite 410, 5991 Spring Garden Road, Halifax, N.S.

Akhtar, S.N., MBBS (Punjab), FRCP(C), Assistant Professor, Psychiatry, N.S. Hospital, Drawer 1004 Dartmouth, N.S.

Aldrich, J.E., PhD (Nott.), Associate Professor, Radiation Oncology, 3rd floor, VG Hospital

Alexander, D.I., MD (Dal), FRCS(C), Lecturer, Surgery (Orthopedics), Room 3162, Ambulatory Care Centre, VG Hospital

Allen, A.C., BS (Haverford), MDCM (McGill), FAAP, Associate Professor, Pediatrics; Assistant Professor, Obstetrics & Gynecology, Grace Maternity Hospital

Allen, C.T.B., MBBS (Lond.), CRCP(C), Assistant Professor, Anesthesia and Surgery, 10th floor, VG Hospital

Allison, N.P., MBChB (Leeds), MRCP (Leeds), FRCP(C), Lecturer, Psychiatry, Nova Scotia Hospital, Drawer 1004, Dartmouth, N.S.

Amirault, John D., BSc, MD, FRCP, Lecturer, Surgery, Camp Hill Hospital

Anderson, I.H., MD (Dal), FRCP(C), Lecturer, Radiology, Saint John Regional Hospital

Anderson, John P., MD (UWO), FRCP(C), Associate Professor, Pediatrics, IWK Hospital

- Anderson, R.N., MDCM (Dal), FRCP(C), The Carnegie and Rockefeller Professor and Head, Medicine, Room 3025, VG Hospital
- Anderson, T.A., BA (UNB), MDCM (Dal), CRCP(C), Assistant Professor, Anesthesia, IWK Hospital
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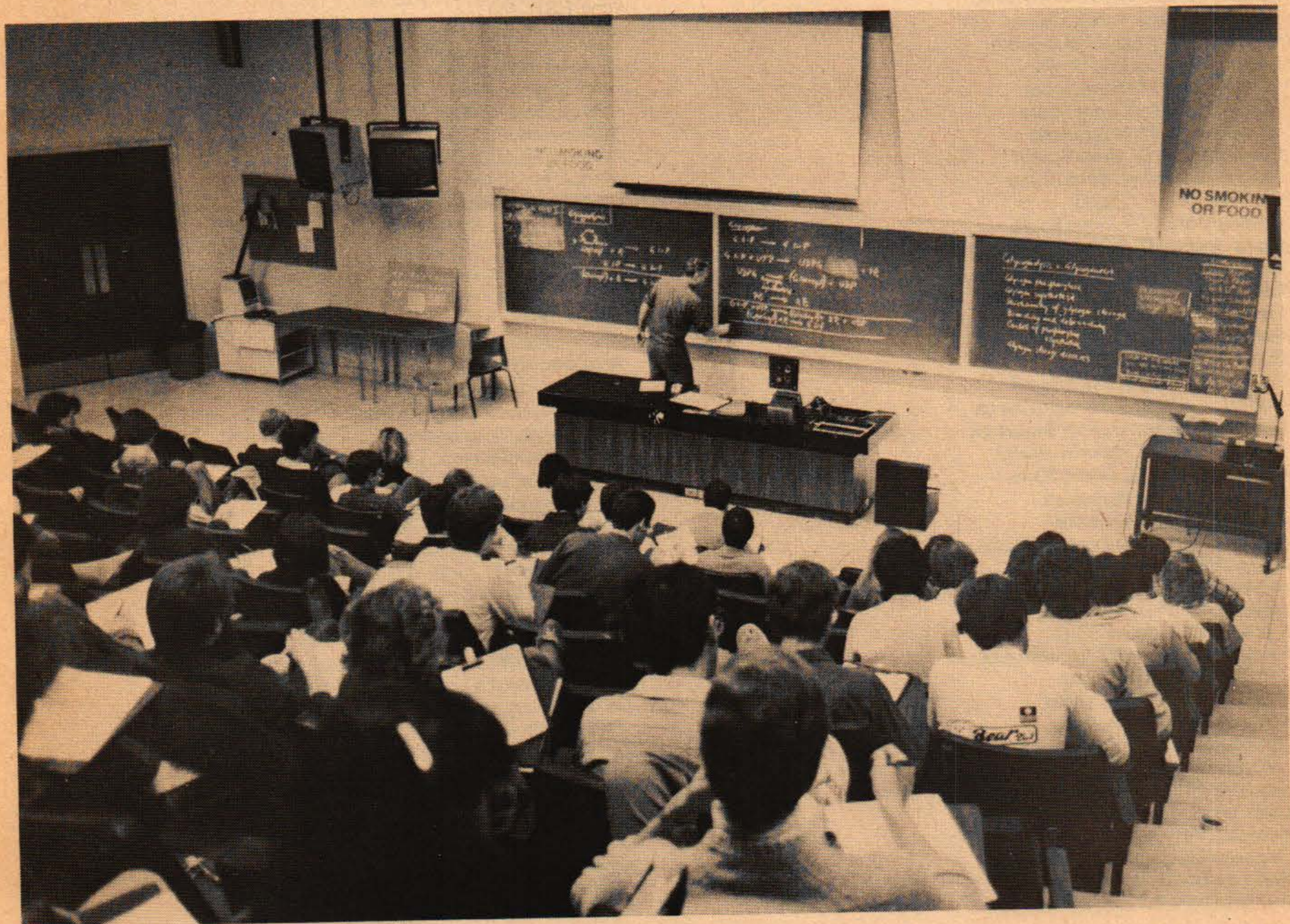
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 Colwell, Bruce D.O., New Brunswick
 Conrod, Cheryl K., Nova Scotia
 Conrod, Michelle A., Nova Scotia

Cox, R. Wayne, Nova Scotia
 Crosbie, Stephen H., Nova Scotia
 Curry, Stephen A., Nova Scotia
 Dickieson, Herbert P., Prince Edward Island
 Douglas, Mark A., United States
 Dow, Gordon C.K., New Brunswick
 Dow, Michelle M., Nova Scotia
 Elwood, Thomas, Nova Scotia
 Estey, Eric P., New Brunswick
 Fallon, Patrick J., New Brunswick
 Fleckenstein, Martin H., New Brunswick
 Fleckenstein, Susan J., New Brunswick
 Gill, Blair G., Nova Scotia
 Gowan, Russell T., New Brunswick
 Hallett, Angela L., New Brunswick
 Hastings, Peter C., Nova Scotia
 Haswell, Timothy W., New Brunswick
 Hellenbrand, Wiebke K., Nova Scotia
 Hickey, Andrea E., New Brunswick
 Hickey, Julia M.T., Nova Scotia
 Holmes, Andrew I., Nova Scotia
 Jones, M. Teresa, Nova Scotia
 Kaufman, Tomas, Quebec
 Kelly, Colleen M., Nova Scotia
 Kumbhare, Dinesh A., Nova Scotia
 Lawrence, Sarah E., Nova Scotia
 Leckey, Naida L., New Brunswick
 MacCallum, Margaret T., Quebec
 MacCormick, Keith R., Nova Scotia
 Mack, Martin D., Nova Scotia
 MacIsaac, Theresa A., Nova Scotia
 MacKay, Susan F., Nova Scotia
 MacPherson, Rhonda L., Nova Scotia
 MacSween, Mary Catherine, Nova Scotia
 McDonald, John D., Nova Scotia
 McKenna, Patricia E., New Brunswick
 McNeil, Karen A., Nova Scotia
 Mills, Judith A., Nova Scotia
 Mohandas, Rajender N., Nova Scotia
 Moujaes, Georges, Nova Scotia
 Mullan, Terence J.G., Nova Scotia
 Newcomb, Paulette F., Nova Scotia
 Nunn, David J., Nova Scotia
 O'Brien, M. Kathleen, Nova Scotia
 O'Neill, Carmen A.C., Nova Scotia
 Oswin, Margaret E., Nova Scotia
 Redmond, Michael P., Nova Scotia
 Richardson, George S., Prince Edward Island
 Risk, Paul J., Nova Scotia
 Robb, Marjorie E., Nova Scotia
 Robertson, M. Nancy L., Prince Edward Island
 Ross, Andrew A., Nova Scotia
 Ross, Valerie A., Nova Scotia
 Rourke, Timothy W., Nova Scotia
 Roy, Lauri J., Nova Scotia
 Sampson, John E., Nova Scotia
 Seman, Leo J., Nova Scotia
 Sharma, Vijay K., Nova Scotia
 Singh, Narendra, New Brunswick
 Smith, P. Jane, New Brunswick
 Steele, Dale R., New Brunswick
 Stewart, Christopher C., Prince Edward Island
 Stultz, Krista A.L., New Brunswick
 Tanner, Christina, Quebec

Tilley, David L., Nova Scotia
 Tynski, Gregory F., Nova Scotia
 Vasilikaki-Baker, Helen, Quebec
 Vaughan, Daniel J.M., Nova Scotia
 Villemaire, Pierre A., Nova Scotia
 Wilcox, David, Nova Scotia
 Williams, Tammy C., Nova Scotia
 Wilson, J. Scott, Nova Scotia
 Wood, Cathy A., Nova Scotia
 Wright, Valena J., Prince Edward Island
 Yoon, Robert Y.I., Nova Scotia

Second Year

Ackermann, Michael J.M., Nova Scotia
 Alexiadis, Maria, Nova Scotia
 Ali, S. Imtiaz, Nova Scotia
 Allan, John C., New Brunswick
 Arab, Donna M., Nova Scotia
 Baines, Lita J., British Columbia
 Baxter, Blaise W., Nova Scotia
 Belitsky, Catherine A., Nova Scotia
 Belliveau, Adele M., New Brunswick
 Bergin, Patrick C., Nova Scotia
 Boswall, Guy J., Prince Edward Island
 Bower, Neil L., Nova Scotia
 Brown, Katherine A., Nova Scotia
 Brown Pamela A., Nova Scotia
 Burk, Jane L., New Brunswick
 Buttle, Jeffrey W., Nova Scotia
 Campbell, David C., Nova Scotia
 Camus, Cyril, Nova Scotia
 Chen, Szu-Yang, Nova Scotia
 Cook, David B., Nova Scotia
 Cooper, Kenneth J., Nova Scotia
 Cox, James R., Nova Scotia
 Craigie, Pamela M., Nova Scotia
 Darvesh, Sultan, New Brunswick
 Davey, Colin F., Prince Edward Island
 Dipersio, Mario B., New Brunswick
 Diquinzio, Claudio, Nova Scotia
 Douglas, J. Geoffrey, Nova Scotia
 Edgar, Mark A., Nova Scotia
 Fleming, Ian M., New Brunswick
 Fraser, Robert B., Nova Scotia
 Fuller, Benjamin R., Nova Scotia
 Gillis, Anne E., Prince Edward Island
 Gow, Nina M., Nova Scotia
 Green, Mary-Anne, Nova Scotia
 Hall, Steven C., Ontario
 Hjelkrem, Michel, Nova Scotia
 Johnson, Suzanne M., Nova Scotia
 Keating, Ann Marie, Nova Scotia
 Kennedy, Renee S., Nova Scotia
 Kinley, Jacqueline L., Nova Scotia
 Kirby, Sarah, Nova Scotia
 Leckey, Nola P., New Brunswick
 Leckey, J. Robert, New Brunswick
 Lentini, Vittorio, Quebec
 Levine, John O., Nova Scotia
 Lewis, Joanna M., Nova Scotia
 MacCormick, Johnna A., Nova Scotia
 MacDonald, Paul J., Nova Scotia
 MacKinnon, Anna-Marie, Nova Scotia
 MacKinnon, Heather A., Quebec

MacLeod, Valerie A., Prince Edward Island
 MacMillan, Kier L., Nova Scotia
 MacNeil, Iain P.G.D., Nova Scotia
 MacNeil, Janice M., Nova Scotia
 MacNeil, Paula F., Nova Scotia
 Mack, Suzanne E., Nova Scotia
 Mahtab, Iona, Nova Scotia
 McCann, David G.C., Nova Scotia
 McCann, D. Burton, Nova Scotia
 McGowan, Liam K., Nova Scotia
 McNally, Gregory T., New Brunswick
 McVicar, Stephen F., Nova Scotia
 Mockler, Raymond A., New Brunswick
 Morash, Christopher G.L., Nova Scotia
 Morris, Joseph F., Nova Scotia
 Morrison, Earl G., Nova Scotia
 Mowatt, James I., New Brunswick
 Mudge, Mary W.E., New Brunswick
 Napier, R. Luke, Nova Scotia
 Neily, Donald R., Nova Scotia
 Nicholson, E. Joanne, Nova Scotia
 Nottle, Brooke M.E., Nova Scotia
 Nolan, Maureen C., Nova Scotia
 Paterson, Jeffrey W., New Brunswick
 Price, Maura B., New Brunswick
 Prince, Mark E.P., Nova Scotia
 Pringle, Christopher R., New Brunswick
 Raghavan, Sai L., Nova Scotia
 Rajaraman, Murali M., Nova Scotia
 Rastogi, Nikhil, Ontario
 Raymond, Gregory S., Nova Scotia
 Rinaldi, Fredryka D.R., Nova Scotia
 Ring, Melanie S., New Brunswick
 Robertson, R. Scott, Nova Scotia
 Rogers, John C., Nova Scotia
 Salgado, Michael J., Nova Scotia
 Samant, Rajiv S., Nova Scotia
 Schertzer, Robert M., Quebec
 Scott, Heather M., Nova Scotia
 Simon, L. Michael, New Brunswick
 Smith, Mark A., New Brunswick
 Steeves, Jeffrey H., Nova Scotia
 Stuart, Lucille, Quebec
 Veinot, John P., Prince Edward Island
 Vohra, Manoj, Nova Scotia
 Watson, Mary-Lynn, New Brunswick
 Weagle, Everett E., Nova Scotia
 White, Margaret J., Prince Edward Island
 Wilson, Maithili K., New Brunswick
 Winter, Itta M.P., Nova Scotia

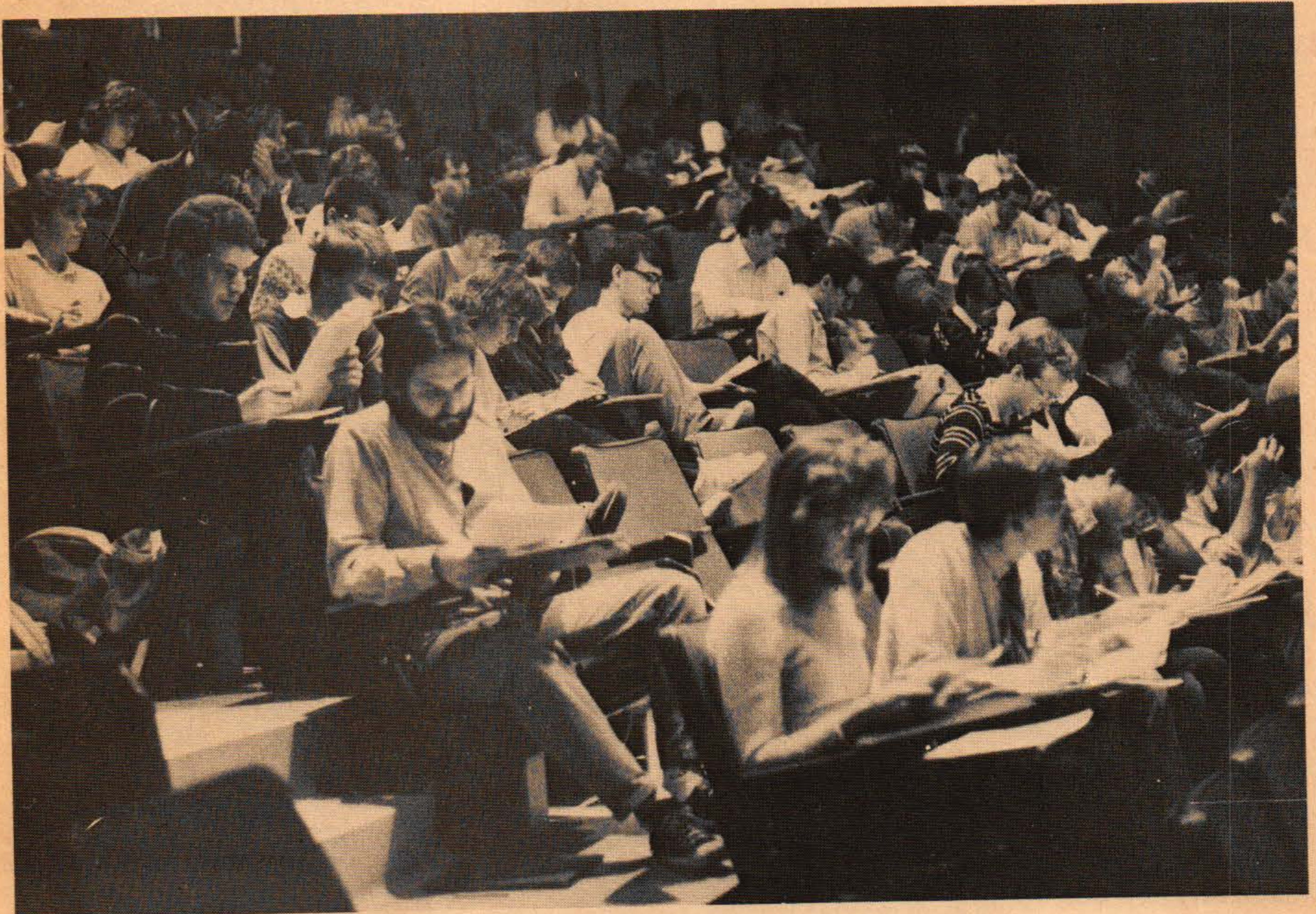
First Year

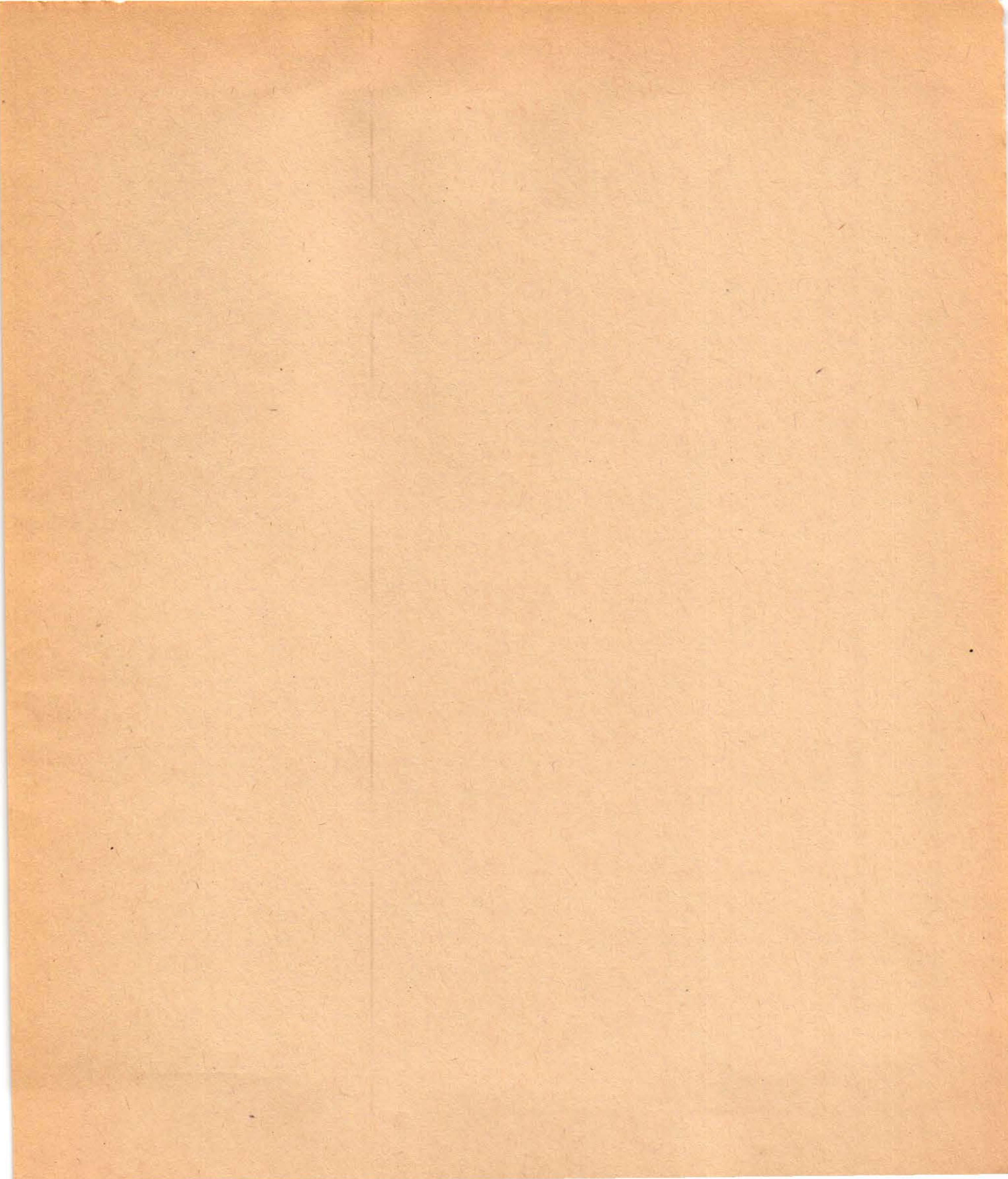
Adorjan, Rosemary I., Nova Scotia
 Ahluwalia, Nalin K., Nova Scotia
 Ahmad, Amer R., Nova Scotia
 Alexander, Karen A., Nova Scotia
 Ansell, Jacqueline R., Nova Scotia
 Archibald, Wallace S.B., Nova Scotia
 Bell, Scott C., New Brunswick
 Berkowitz, Stephen G., Quebec
 Berkshire, Andrew J., Nova Scotia
 Boulay, Robert M., New Brunswick
 Brandys, Timothy M., Nova Scotia
 Brisseau, Guy F., Nova Scotia

Brothers, Peter J., Nova Scotia
 Burton, Philip J., Nova Scotia
 Carr, Brendan St. J., Nova Scotia
 Clarke, Heather E., Nova Scotia
 Collicutt, James A., Nova Scotia
 Collings, James C., New Brunswick
 Colpitts, David C., New Brunswick
 Comeau, Terrance B.W., New Brunswick
 Cooke, Raymond H., Prince Edward Island
 Coppolino, Michael L., Ontario
 Crouse, Susan L., Nova Scotia
 Dickinson, John D., New Brunswick
 Douglas, Susan L., Nova Scotia
 Dubarsky, Howard B., Quebec
 Elias, David A., New Brunswick
 Embil, John M.A., Nova Scotia
 Ervine, James W., Nova Scotia
 Gagliardi, Menuccia, Nova Scotia
 Gallagher, Kathleen M., Nova Scotia
 Gallant, Steve J., Nova Scotia
 Gass, Rebekah J.A., Prince Edward Island
 George, Judith P., Nova Scotia
 Giffin, P. Randolph, Nova Scotia
 Gilliatt, Erica P., Nova Scotia
 Grant, Ian A., Nova Scotia
 Greene, Graham F., Nova Scotia
 Hall, Suzanne, Quebec
 Hamilton, Frances I., Ontario
 Hender, Kimberley J., Prince Edward Island
 Hill, Rachel, New Brunswick
 Hoffman, Daniel B., Nova Scotia
 Jacobson, Alexander H., Ontario
 Jarrett, Pamela G., New Brunswick
 Jones, Diana C., Nova Scotia
 Josey, Michael C., Nova Scotia
 Keyes, G. Elizabeth, Nova Scotia
 Kovacs, George J., Nova Scotia
 Lam, Alice, Nova Scotia
 Legere, Paul W., Nova Scotia
 Locke, Trevor A., Nova Scotia
 Losier, Christopher L., New Brunswick
 Lyons, Brian J., New Brunswick
 MacDonald, Theresa M., Nova Scotia
 MacKinnon, Janet A., Prince Edward Island
 MacLeod, Kim S., Nova Scotia
 MacNeil, Mary W., Nova Scotia
 MacVicar, G. Neil, Nova Scotia
 Maloney, Kelly E., Nova Scotia
 Manuel, Douglas G., Nova Scotia
 Marcovitch, Jeff, Quebec
 Master, Suketu, New Brunswick
 Merritt, Robert B., Nova Scotia
 Milne, David G., Nova Scotia
 Morris, John E., Nova Scotia
 Mulligan, J. Michael, Prince Edward Island
 Nagpal, Sandeep K., Nova Scotia
 Nagpal, Sudhir K., Nova Scotia
 Patel, Deepen M., New Brunswick
 Petrie, David A., Nova Scotia
 Poulos, R. Kirk, Nova Scotia
 Randall, Troy D., Nova Scotia
 Rayson, Danny, Quebec
 Reid, David B., Nova Scotia
 Rombaut, Allan J., Nova Scotia

Ryan, John G., Nova Scotia
Sampson, Mark E., Nova Scotia
Schelew, Benjamin L., Nova Scotia
Sepandj, Farshad, Nova Scotia
Shallhorn, Peter H., Prince Edward Island
Silver, Karen L., Nova Scotia
Slysz, Garth W., New Brunswick
Smith, Cheryl D., New Brunswick
Solomon, Robert S., Quebec
Spence, David C., Nova Scotia
Spiess, Andre J., Nova Scotia

Steele, A. Leone, Nova Scotia
Sutherland, Donald F., New Brunswick
Tanton, Robert L., Nova Scotia
Thomson, Carolyn J., Nova Scotia
Touchie, Jane E., New Brunswick
Whelan, Thomas F., New Brunswick
Wiseman, Anne C., Nova Scotia
Woodfield, Wendy A., New Brunswick
Writer, Hilary K., Nova Scotia
Youssef, Youssef M.R., Nova Scotia
Zayid, Dina P., Nova Scotia







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