



**DALHOUSIE
UNIVERSITY**

1987-88



FACULTY OF MEDICINE CALENDAR

Dalhousie University Faculty of Medicine

Founded in 1818
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 1987-88

May 1987

Monday, 11: Clinical clerkship begins, Medicine.

Tuesday, 12, Wednesday 13: LMCC Examinations, Medicine.

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

Monday, 18: Victoria Day.

Friday, 22: University Convocation (Medicine).

June

Wednesday, 17: Internship year begins.

Tuesday, 30: Last regular day for registration of postgraduate Medical Residents.

July

Wednesday, 1: Canada Day.

Resident Training begins, Medicine.

Postgraduate Medicine Residency programs commence.

August

Monday, 3: Halifax Natal Day and Dartmouth Natal Day — no classes

Friday, 7 - Friday, 14: Supplemental and deferred examinations — Medicine (first and second years).

September

Tuesday, 1: Classes begin for Med III.

Monday, 7: Labour Day.

Tuesday, 8: Registration ends and classes begin for Med I and Med II.

October

Thursday, 1: Applications available, Medicine.

Monday, 12: Thanksgiving Day.

Saturday, 17: Fall Convocation.

November

Wednesday, 11: Remembrance Day, no classes.

December

Tuesday, 1: Last day to apply for postgraduate training, Medicine.

Monday, 14 - Friday 18: Christmas finals, Medicine (first and second years).

Tuesday, 15: Last day for receipt of Medical applications.

Monday, 21: Student holidays begin.

Friday, 25: Christmas Day.

Saturday, 26: Boxing Day.

January 1988

Friday, 1: New Year's Day.

February

Friday, 5: Munro Day, no classes (does not apply to Med IV).

Saturday, 6: Winter Carnival, no classes (does not apply to Medicine).

Monday, 22: Study break begins (does not apply to Med III and IV)

Monday, 29: Classes resume.

April

Wednesday, 27 — Friday, 29: Final Examinations, Med III.

May

Tuesday, 10 — Wednesday, 11: LMCC Examinations (Medicine).

Wednesday, 18: Final examinations begin, Medicine (first and second years).

Friday, 20: University Convocation (Medicine).

Monday, 23: Victoria Day.

Friday, 27: Examinations end, Medicine (first and second years).

June

Wednesday, 15: Internship year begins.

(Please note that the above examination dates are subject to approval by UMEC).

Final Dates for Receipt of Applications for Admission

Arts and Science

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

Health Professions

Recreation, Physical and Health Education & Kinesiology	July 15
BSc (Nursing)	March 1
BSc (Nursing) for Post RN ¹ (Full-time)	June 1
(Part-time)	August 1
Outpost and Community Health Nursing ²	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

Dentistry December 1

Dental Hygiene February 1

Medicine

MD	December 15
Post-Graduate	December 1

Law³ February 27

Graduate Studies (except as below) August 1

Non-Canadian Students	May 30
Human Communication Disorders	February 27
Law	April 15
Library Service ⁴	April 15
Nursing and Health Services Administration	May 30
Oral Surgery ⁵	June 30
Social Work	January 30

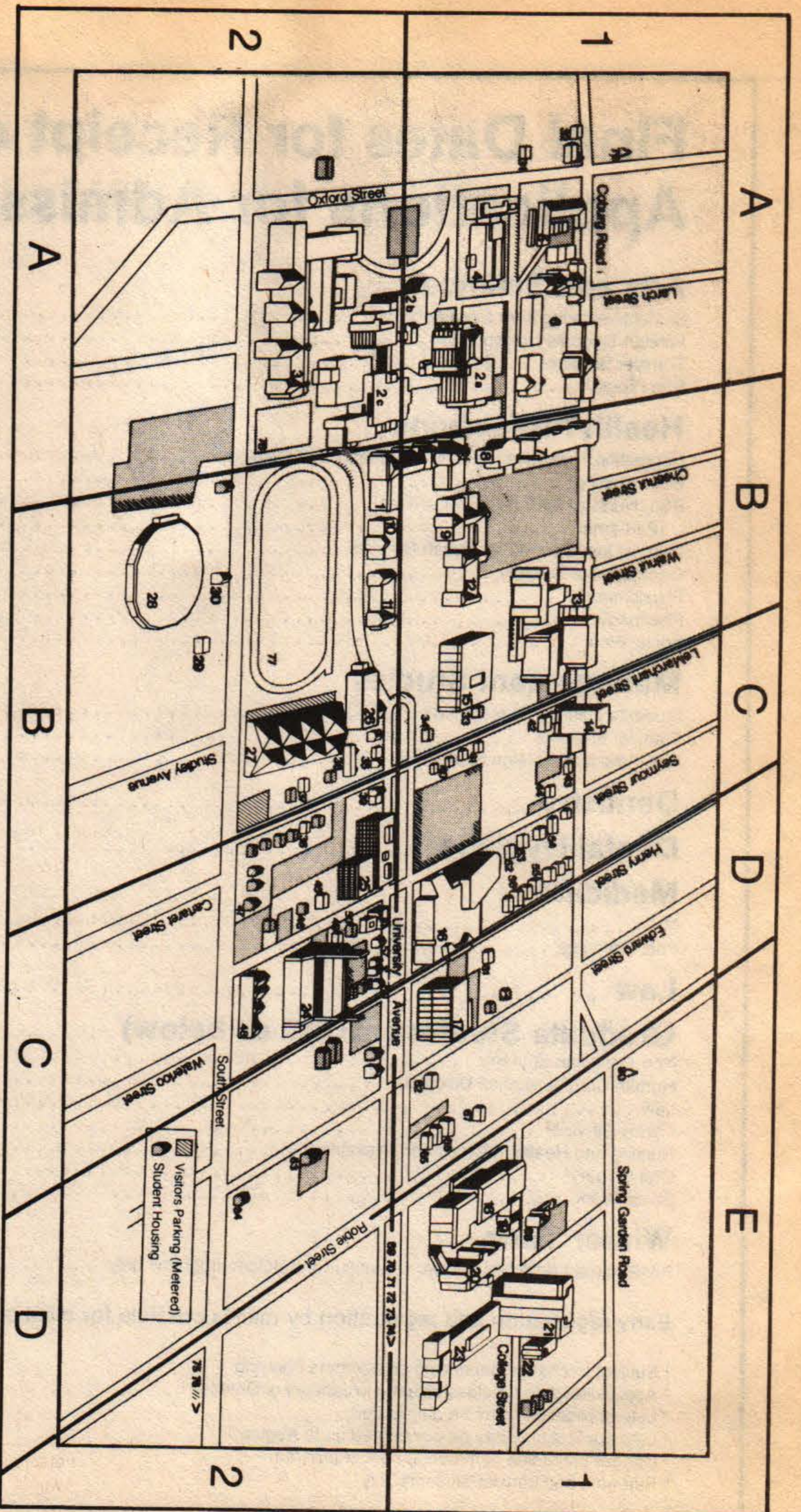
Winter Term

BA⁶BSc (part-time and transfer students) ⁶and BCom programs only November 16

Early registration and registration by mail is possible for most students, and is advised.

¹ Subject to change depending on numbers applying
² Application date for class entering in January is October 1
³ Late applications may be considered
⁴ Late applications may be considered up to August 1
⁵ Of year preceding commencement of program
⁶ 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)
- Killiam 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)
- Resource & Environmental Studies - 65 (D2)

- 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, LLD

President and Vice-Chancellor

H.C. Clark, BSc, MSc, PhD, ScD

Board of Governors

Mr. Barrie Black

Dr. Mona L. Campbell

Mr. Wesley G. Campbell

Dr. H. Reuben Cohen

Mr. Louis R. Comeau

Mr. George T.H. Cooper

Mr. James S. Cowan

Dr. Donna M. Curry, Honorary Secretary

Mr. Peter R. Doig

Mr. Ivan E.H. Duvar

Mr. Brian Flemming

Mrs. Betty Flinn

Mrs. Jean Harrington

Mr. David J. Hennigar

Mr. Donald A. Kerr

Ms. Mary L.C. Lamb

Mr. J. Gordon Lawley

Mr. John W. Lindsay

Mrs. Annemarie MacDonald

Mr. Alexander J. MacIntosh

Dr. Albro D. MacKeen

Mr. Jamie MacMullin

Mr. Edward MacNeil

Dr. C. Peter McColough

Mr. E. Neil McKelvey

Mrs. Shirlee Medjuck

Dr. Clifford Murray

Chief Judge Ian H. M. Palmetier

Miss Jolene Pattison

Mr. George C. Piercey, Vice-Chairperson

Dr. Cedric E. Ritchie

Mr. W. Struan Robertson, Chairperson

Dr. Henry Roper

Mr. Alan K. Scales

Dr. Peter T. Schwenger

Mr. Allan C. Shaw, Honorary Treasurer

Mr. Donald C.R. Sobey

The Hon. R.L. Stanfield

Mrs. Joan Stirling

Mr. Tom Taylor

Ms. Maxine N. Tynes

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. Rodgers

Observer for Faculty Association

Dr. Marcia Ozier

Administrative Officers

President and Vice-Chancellor

H.C. Clark, BSc, MSc, PhD, ScD

Vice-Presidents

Bryan Mason, BA, 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, BCom, University Services

John Mabley, BA, MA, EdS, Development

Deans of Faculties

Arts and Science: Donald D. Betts, MSc, PhD, FRSC

Dentistry: Kenneth Zakariasen, BA, DDS, MS, PhD

Graduate Studies: Kenneth T. Leffek, BSc, PhD, FCIC (Chem.)

Health Professions: Robert S. Tonks, BPharm, PhD, FPS

Law: Innis C. Christie, BA, LLB, LLM

Management Studies: Roy E. George, BSc, MA, PhD

Medicine: T.J. (Jock) Murray, MD, FRCP(C)

Henson College of Public Affairs and Continuing Education

Dean: J. Douglas Myers, BA, BEd, MA, PhD

Other Administrative Officers

Registrar (pro tem): Mary MacGillivray, BA

Director of Admissions: William D. Courier, BSc, MSc, PhD

University Librarian: William F. Birdsall, MA, PhD

Dean of Student Services: Edward T. Marriott, BA, MEd

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, BA, 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

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 enrolment stands at over 10,000 students. To accommodate them, in a wide variety of undergraduate, professional, and graduate programs, Dalhousie occupies more than 60 acres in a residential area 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 close 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 adjacent to Dalhousie campus, is an affiliated institution, and its students in Arts and Science receive Dalhousie degrees in the name of both institutions. By agreement with Mount Saint Vincent University students have access 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 provided for in working arrangements with Saint Mary's University and other institutions in Halifax.

Degrees in agriculture, awarded to students of the Nova Scotia Agricultural College, are awarded 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, the alumni, the Student Union and 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).

Henson College of Public Affairs and Continuing Education is responsible for coordinating continuing education programs both for degree credit and part-time studies, including the Summer School, and for community education activities.

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

Resource and Environmental Studies

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

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

International Institute for Transportation and Ocean Policy Studies

Lester B. Pearson Institute for International Development

Trace Analysis Research Centre

Academic Programs and Information Sources

In 1987-88 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 (Kinesiology) (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, Computing Science, 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, Psychology
 Doctor of Philosophy (2 or 3 years, with thesis) in Anatomy, Biochemistry, Biology, Chemistry, Classics, Economics, Education, English, French, 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 Business Administration with Bachelor of Laws (4 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 Aquaculture (1 year)
 Diploma in Public Administration (1 year)

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.

Special Institutes

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

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.

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: D.L. Hooper, 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 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.

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: M. Salisbury, BSc, PhD

The Centre for Marine Geology was founded in 1983 to promote the

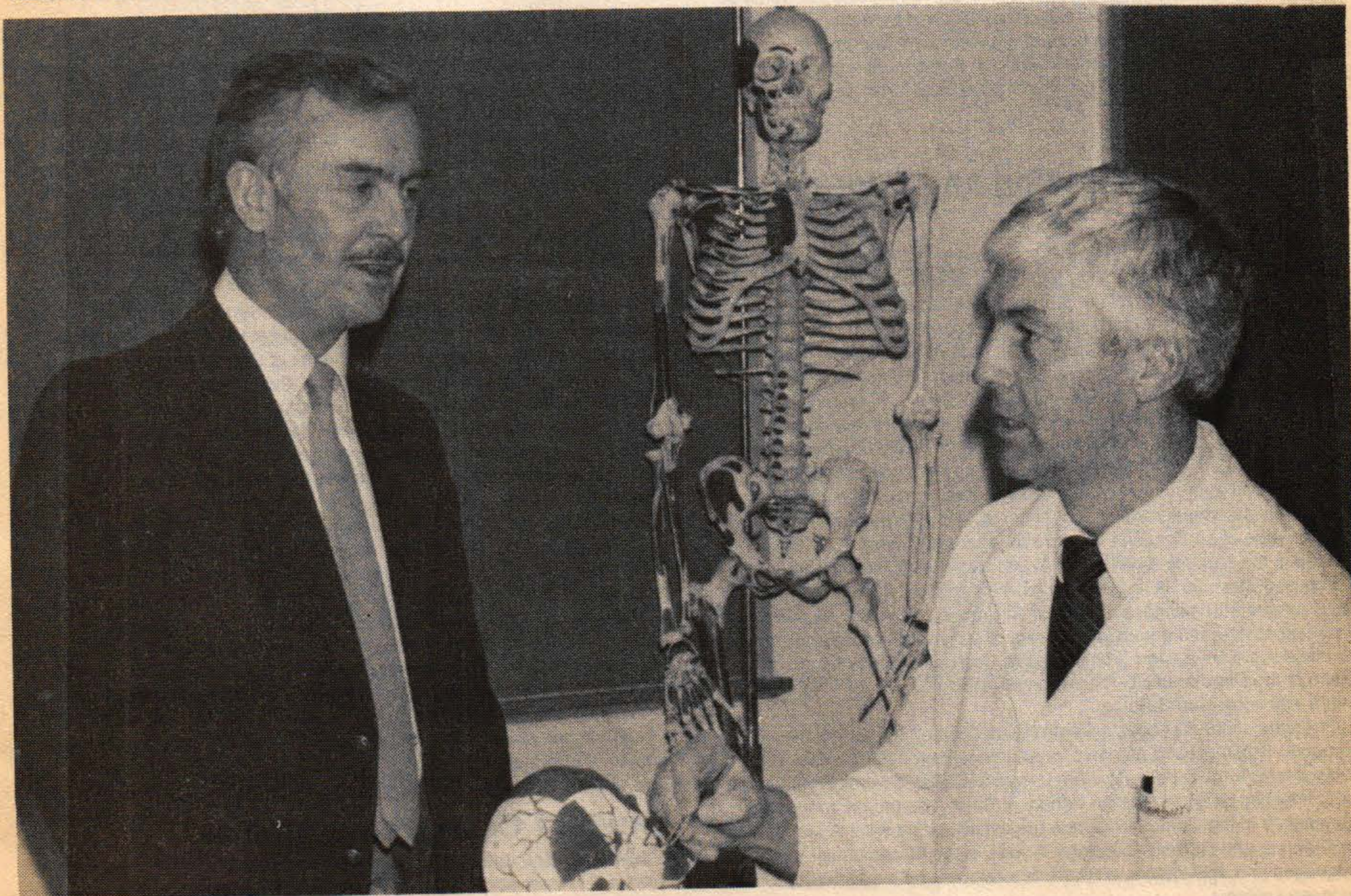
interdisciplinary study of the continental margins and the sea floor. The Centre draws on the faculty and resources of the Departments of Geology, Oceanography and Physics and others. The objectives of the Centre are: (1) to expand the university's leading role in international studies of the oceanic 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.

International Institute for Transportation and Ocean Policy Studies

Director: J. Gratwick, BSc

The Institute is a not-for-profit organization, federally incorporated and situated on the Dalhousie campus. It provides a means of attracting external support for a variety of activities in the fields of ocean, maritime and transportation studies. It acts as a vehicle to bring Dalhousie faculty, and possible researchers together with persons from other organizations, in order to encourage cooperative participation in such activities.

Teachers of the Year for 1985-86



Left to right: Dr. D.G. Gwyn, Dr. R. Clattenburg

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, 1986, the total Dalhousie University Library System holdings include over 1,549,000 volumes of books, bound periodicals, documents, and bound reports, 296,200 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 646,000 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 311,000 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 four divisions. "Facilities and Operations," located in the basement of the Killam Library building, is responsible for operating and managing the central mainframe and minicomputers. "Communications Services," also located in the basement of the Killam, is responsible for voice (telephone) and data communications and related hardware services. "Academic Computing Services" provides consulting, education and documentation services for users of central and some departmental computers. It is also responsible for support and maintenance of applications software for academic users. It too is located in the basement of the Killam Library building. "Administrative Computing Services" is responsible for the selection, installation, development and maintenance of administrative computing systems, for providing advice and education to users of administrative systems, and for office systems support. Administrative Computing Services and the Office of the Director of UCIS are located in Rooms 21A to 21K in the Arts & Administration Building.

Currently, UCIS manages a Control Data Cyber 730 mainframe computer which is used primarily for academic purposes, an IBM 4381 computer for administrative systems, several Digital VAX minicomputers for Computing Science and the School of Business, and microcomputer laboratories in the Computer Centre (basement of the Killam) and the Engineering and Dentistry buildings. A wide range of computer languages and applications software is available and supported by UCIS on these systems.

Microcomputer Information Centre

The Microcomputer Information Centre was opened in November 1984 to assist faculty, staff and students of Dalhousie University, St. Mary's University, Mount St. Vincent University and the Technical University of Nova Scotia in the use of microcomputer technology.

The objectives of the Centre are:

1. to provide current accurate information about microcomputers to our users using resources such as current periodicals, evaluation reports of hardware and software, sample books and software as well as equipment and software demonstrations.
2. to provide prepurchase advice to potential and current microcomputer users.
3. to assist in Interuniversity co-operation on microcomputer policy through different groups.

The Centre is currently located on the first floor of the Killam Library and is open from 8:30 to 4:30 weekdays. The phone number is 424-8893.

Purchase agreements have been made with several suppliers to give faculty, staff and students a discount on personal purchases as well as on University purchases. Eligible persons can obtain authorization forms at the centre.

Periodical and evaluation reports as well as sample hardware and software are available for use in the Centre.

Student Services

Located in Room 124 of the Arts and Administration Building, this office provides a point of referral for any student concerns. The Dean coordinates the administration of Chaplaincy, Counselling and Psychological Services, University Health, the *Writing Workshop*, the Ombud Office, the International Student Centre, 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 concern 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 424-3379.

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. An International Students Centre, located at 1394 Edward Street, serves as a meeting place for all International 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 8:30 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/Residence 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 4J5. 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 445 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, a games room, 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.

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

The women's residence houses are former family dwellings each with their own kitchen and living room/lounge and full baths. All rooms are furnished as study-bedrooms. Students must supply their own cooking utensils, small appliances, china and cutlery for use in the student kitchens. Each student is responsible for cleaning her room. Common rooms and facilities are cleaned by staff. These houses are reserved for students in the professional schools and graduate studies, but a few of the 100 spaces 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. Phone (902) 424-2577.

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, Shirreff Hall, Dalhousie University, Halifax, Nova Scotia B3H 4J4. Phone (902) 424-2577.

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 an application fee and deposit in Canadian funds. No applications will be processed until the fee and deposit are received. 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: Jamie MacMullin

Vice-President: Sandra Bell

Treasurer: Sean Casey

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 \$100. 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 performing arts theatre and the highly regarded Dalhousie Art Gallery, housed in the Dalhousie Arts Centre, are active places indeed.

The 1,041 seat Rebecca Cohn Auditorium presents a wide variety of programs ranging from ballet to rock, classical music to children's performances.

The Dalhousie Art Gallery offers the public access to national and

international touring exhibitions and initiates many ambitious and exciting exhibition programs.

Athletics

Athletics and Recreational Services offers a wide range of programs for every Dalhousie student. More than sixty clubs and intramural programs offer fun, fitness and companionship while 14 varsity sports provide excitement for players and spectators alike. For those who prefer less competitive activities, there is a great number of fitness, leisure and aquatic instructional programs.

Alumni Association

The Alumni Association is composed of over 36,000 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, Medical 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.

5. Examples of Academic Offences

(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

Academic Fees

NOTE: All the regulations in this section may not apply to Graduate students. Please refer to the "Faculty of Graduate Studies" section of the Graduate Studies Calendar.

Introduction

Academic sessions at Dalhousie are as follows:

Fall Session:	September — December
Winter Session:	January — April
Summer School (first session):	May — June
Summer School (second session):	July — August

This section outlines the University Regulations on academic fees for both full-time and part-time students enrolled in programs of study during the fall and winter sessions only. Students wishing to register for the first or second summer session should consult the Summer School Calendar for information on registration dates and fees. The Summer School Calendar is available from the Director of the Summer School and the Registrar's Office.

In addition students should note the application and registration deadlines contained in the Almanac on pages 4 and 5 of this calendar. Students should also be aware that additional fees and/or interest will be charged when deadlines for payment of fees as contained herein are not met.

Regulations for Payment of Fees

Academic fees are comprised of: (a) the University fee for tuition and (b) incidental fee comprised of Student Union and Society fees.

The following general regulations are applicable to all payments made to the University in respect of fees.

Fees must be paid in *Canadian funds by cash or negotiable cheque.*

If payment is by cheque and it is returned by the bank as non-negotiable, there will be an additional fee of \$15.00 and the account will be considered unpaid. Furthermore, if the bank returns a cheque that was to cover the first payment on tuition, the student will not be considered registered and, if applicable, the late registration fee will apply.

Bills for fees will not be issued. The receipt obtained from Student Accounts each time a payment is made will show the date and amount of the payment as well as the balance outstanding.

The particular fees and deposits together with the specified dates upon which payments are required are set out below.

Application Fee

An application fee of \$15.00 must accompany 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, and reapplies to the same program for a subsequent session, the fee is again payable. Application fees are not refundable and are not applied as a credit to academic 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. Further information on the regulations governing the refund of admission deposits is contained in the section below on Refunds and Withdrawals. 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 from the government or other agency.

Foreign Students

Students registering at Dalhousie who are not Canadian citizens or permanent residents are required to pay an additional fee referred to as a "Differential Fee". For visa students who commenced their current program of study prior to the 1985-86 academic year, the fee is \$1500.00. For those visa students who commenced their current program of study during or after the 1985-86 academic year the fee is \$1700.00. There is a proportionate change for part-time foreign students. The payment of the differential fee is payable with the first installment of fees each year.

Academic Fees

The 1987-88 fee schedule was not available at the time of printing this calendar and will be available from the Student Accounts Office and Registrar's Office no later than June 1987. The fee schedule for 1986-87 has been provided for information only. For purposes of this section of the calendar a full-time undergraduate student is one who is registered for the fall and winter terms for more than three full credits, or if registered for only one term, for more than three half credits. Students other than those registered in Law, Medicine, Dentistry or a graduate program may be registered full-time in one term and part-time in the other.

Registration

In order to complete the registration process all students:

- i) must register on or before September 12, 1987 for the fall term and on or before January 4, 1988 for the winter term;
- ii) must complete and submit the necessary class approval and registration forms to the Registrar on or before the specified registration dates;
- iii) must submit to the Student Accounts Office on or before the specified registration dates the forms in ii) above once approval has been obtained from the Registrar;
- iv) must pay a registration deposit of \$50.00 on or before the specified registration dates unless an admission deposit has already been paid. Regardless of whether or not the student has paid an admission deposit, the procedures for registration as outlined herein must be completed. This applies to all students including those on scholarships, fellowships, Canada Student loans, or whose fees will be paid by external organizations;
- v) holding scholarships or bursaries paid by or through Dalhousie University must provide at registration adequate documentary evidence of entitlement to sums claimed under the award;
- vi) whose fees are to be paid by a government or other agency must provide a signed statement from the organization at registration.

The completion of the registration process shall be deemed to be an agreement by the student for the payment of the balance of fees unless formal action to withdraw in accordance with these regulations is taken in writing at the Registrar's office. Graduate students wishing to withdraw

Academic Fees 1986-87

	University Fee	Student Union Fee (incl. Year Book in graduating year)	Society Fee	TOTAL	If paid on or before August 31, 1986 pay only	If paid by TWO installments At Registration	Bal. Before Jan. 25/87
Arts and Science	1,525.00	100.00	5.00	1,630.00	1,600.00	1,050.00	580.00
King's (Payable to Dalhousie)	1,525.00	—	5.00	1,530.00	1,500.00	1,050.00	480.00
Engineering	1,612.00	100.00	10.00	1,722.00	1,690.00	1,050.00	672.00
Health Professions							
Nursing	1,612.00	100.00	15.00	1,727.00	1,695.00	1,050.00	677.00
Outpost Nursing, 2nd year	1,612.00	—	15.00	1,627.00	1,595.00	1,050.00	577.00
Pharmacy	1,612.00	100.00	31.50	1,743.50	1,711.50	1,050.00	693.50
Clinical Residence - Pharmacy	389.00	—	—	389.00	389.00	389.00	—
Phys. Ed., Health Ed., Rec.	1,612.00	100.00	10.00	1,722.00	1,690.00	1,050.00	672.00
Physio./Occ. Therapy	1,612.00	100.00	13.00	1,725.00	1,693.00	1,050.00	675.00
B.S.W.	1,525.00	100.00	10.00	1,635.00	1,605.00	1,050.00	585.00
Management Studies							
B.Com	1,612.00	100.00	30.00	1,742.00	1,710.00	1,050.00	692.00
CPA	1,525.00	100.00	10.00	1,635.00	1,605.00	1,050.00	585.00
Graduate Studies							
Full time	1,633.00	100.00	20.00	1,753.00	1,720.00	1,200.00	553.00
Full time MBA	1,633.00	100.00	35.00	1,768.00	1,735.00	1,200.00	568.00
Part-time for Degree	563.00	40.00	10.00	613.00	602.00	400.00	213.00
Thesis-only Full-time	254.00	100.00	20.00	374.00	374.00	374.00	—
Thesis-only Part-time	254.00	50.00	10.00	314.00	314.00	314.00	—
M.Sc. Dentistry-Oral Surgery	1,898.00	100.00	20.00	2,018.00	1,980.00	1,200.00	818.00
LL.M. (Full-time); J.S.D.	1,747.00	100.00	20.00	1,867.00	1,832.00	1,200.00	667.00
LL.M. (Part-time for Degree)	874.00	50.00	10.00	934.00	917.00	625.00	309.00
Law	1,747.00	100.00	15.00	1,862.00	1,827.00	1,200.00	662.00
Medicine							
MD	1,898.00	100.00	25.00	2,023.00	1,985.00	1,200.00	823.00
Postgraduate, Interns, Residents	389.00	—	—	389.00	389.00	389.00	—
Dentistry							
DDS	1,898.00	100.00	150.00	2,148.00	2,110.00	1,200.00	948.00
*DDS Advanced Standing	3,796.00	100.00	150.00	4,046.00	3,970.00	2,400.00	1,646.00
Dental Hygiene	1,612.00	100.00	35.00	1,747.00	1,715.00	1,050.00	697.00
*Dental Hygiene Advanced Standing	3,224.00	100.00	35.00	3,359.00	3,295.00	2,100.00	1,259.00
Postgraduate Periodontics	1,898.00	100.00	150.00	2,148.00	2,110.00	1,200.00	948.00
*Candidates with advanced standing admitted to special programmes in DDS and DENTAL HYGIENE to meet Provincial Professional Qualifications, are required to pay double the University fee paid by students in regular programmes.							
Full Time - One Term Only							
more than 3 one-half credits	757.00	50.00	—	807.00	807.00	807.00	—
Part Time - Session and Term*							
All Faculties - Per Course							
1 Full Credit Course	324.00	22.00	—	346.00	340.00	212.00	134.00
2 Full Credit Courses	628.00	44.00	—	672.00	659.00	424.00	248.00
3 Full Credit Courses	932.00	100.00	**	1,032.00(+)	1,013.00(+)	640.00(+)	392.00
1/2 Credit Course	162.00	11.00	—	173.00	173.00	173.00	—
1/3 Credit Course	108.00	11.00	—	119.00	119.00	119.00	—
Audit - Session and Term***							
All Faculties - Per Course							
1 Full Audit Course	162.00	—	—	162.00	162.00	162.00	—
1/2 Course for Audit	81.00	—	—	81.00	81.00	81.00	—
1/3 Course for Audit	54.00	—	—	54.00	54.00	54.00	—

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

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

***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. See page 31 of 1987-88 undergraduate calendar for deadline.

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.

Foreign Students (additional charge):

Visa Students (those who are not Canadian citizens or permanent residents) who commenced their current program of study prior to the 1985/86 academic year are required to pay a Differential Fee of \$1,500.00. For those Visa students who commenced their program of study in the 1985/86 academic year, the Differential Fee is \$1,700.00. There is a proportionate charge for part time. THE DIFFERENTIAL FEE IS PAYABLE EACH YEAR WITH THE PAYMENT OF THE FIRST INSTALLMENT OF FEES.

should initiate formal action to withdraw at the Office of the Dean of Graduate Studies.

Payment of Academic Fees

The payment of academic fees will be received at the Student Accounts Office located on the basement level of the Arts & Administration building across from the I.D. Unit. (Telephone 424-3998) The following regulations apply to the payment of academic fees. For further information on regulations regarding withdrawal of registration, please refer to the Refunds and Withdrawals section below.

i) If full payment of academic fees is made on or before August 31, a discount of 2% of the University fee only will be given. Students receiving fee waivers and/or Dalhousie University scholarships are not eligible for this discount.

ii) Should students prefer to pay in two installments, any unpaid balance of the first installment is due on September 30, 1987 and the second by January 25, 1988.

iii) Students registering for either the fall or winter terms only must pay the unpaid balance of fees on or before September 30 or January 25 respectively.

iv) Scholarships or bursaries paid by or through Dalhousie University will be applied to fees.

v) When a Canada Student loan or bursary is presented at the Student Accounts Office, any unpaid academic and/or residence fees will be deducted.

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

Audit Students

Full-time students may audit classes which are related to their programs without additional fees. In such cases the student is required to obtain class approval and complete the registration process as described above.

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 withdrawal without academic penalty as shown in the Almanac. The same deadline applies for a change from credit to audit.

Late Registration

Students are expected to register on or before the specified registration dates. Where a student wishes to register after these dates, approval of the Dean of the Faculty and/or the Registrar is required. If approval is obtained on or before September 30 (January 30 for the winter term), a late registration fee of \$50.00 is payable at the time of registration and will be in addition to the \$50.00 registration deposit required. If approval is obtained after September 30 (January 30 for the winter term), a late registration fee of \$100.00 is payable at the time of registration and will be in addition to the first instalment of fees and any interest thereon.

Refunds and Withdrawals

NON-ATTENDANCE AT CLASSES DOES NOT CONSTITUTE WITHDRAWAL.

— A refund of fees will not be granted unless the following conditions are met.

— Written notification of withdrawal must be submitted to the Registrar's Office.

— After the approval of the Registrar has been obtained, (Dean of

Graduate Studies in the case of Graduate Students), application for a refund or adjustment of fees should be made to the Student Accounts Office immediately. The withdrawal process is official on the date application for withdrawal is made at the Student Accounts Office. Therefore the calculation of the refundable portion of fees will be based on this date. (Retroactive withdrawals will not be permitted.)

No refunds will be made for 30 days when payment has been made by personal cheque.

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

— A student who has paid an admission deposit for a program in the Faculties of Arts and Science or Management Studies, and cancels that application before August 1 (December 1 for the winter term), is entitled to a refund of \$75.00. No refund of admission deposits will be made after this date.

— In any program in which the enrolment is limited, the first installment of fees is not refundable except on compassionate grounds (e.g. illness). Please refer to the definition of limited enrolment programs on page 21.

Dates for Refund

The dates and refundable portion of fees on withdrawal for students registered in both the fall and winter terms as well as the fall or winter terms alone are outlined below.

For Students Registered in Both the Fall and Winter Terms

— A student withdrawing on or before September 30 will be charged an administration fee of \$25.00. However, where an admission deposit has been paid no administration fee is required.

— A student withdrawing after September 30 will be charged the incidental fees in full and may receive a refund 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 from full-time to part-time status before February 1, must have the approval of the Registrar and will then be eligible for an adjustment in fees for the remainder of the session.

— No refunds will be made to students withdrawing after January 31.

For Students Registered in the Fall Term Only

— A student withdrawing on or before September 30, will be charged an administration fee of \$25.00. However, where an admission deposit has been paid no administration fee is required.

— A student withdrawing in the month of October will be charged one-third of the University fee plus the incidental fee in full, where applicable.

— No refunds will be made to students withdrawing after October 15.

For Students Registered in the Winter Term Only

— A student withdrawing on or before January 15, will be charged an administration fee of only \$25.00. However, where an admission deposit has been paid no administration fee is required.

— A student withdrawing after January 15 and before February 16 will be charged one-third of the University fee plus the incidental fee in full, where applicable.

— No refunds will be made to students withdrawing after February 15.

Delinquent Accounts

Accounts are considered delinquent when the balance of fees has not been paid on or before September 30 (January 25 for students registered for the winter term only). Where payment in two installments is permitted the balance due is calculated on the basis of the installment amounts and dates specified in the 1987-88 fee schedule.

Compound interest at the monthly rate of 1.25% will be charged on

delinquent accounts for the number of days overdue. A student whose account is delinquent for more than 30 days will be denied University privileges including access to transcripts and records of attendance, Dalplex and the libraries. In the latter case the student will be reinstated upon payment of the fees outstanding, the arrears interest and a \$50.00 reinstatement fee.

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 September 1 and January 1 respectively.

General Information

Location of Student Accounts Office

The Student Accounts Office is located on the basement level of the Arts and Administration building across from the I.D. Unit. The telephone number is 424-3998.

Canada Student Loans

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

Fees Deductible For Income Tax

The amount of fees constituting an income tax exemption is determined by Revenue Canada Taxation. At the present time this 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 provided the fees are eligible for the issuance of the certificate.

Other Fees and Deposits

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 in those cases where the University requires a replacement card. 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 Deposits

A deposit for the use of laboratory facilities in certain departments is required. The deposit amount is determined by and collected in these departments. Students will be charged for careless or willful damage regardless of whether or not a deposit is required.

Supplemental and Special Examination

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. Faculty of Medicine see Promotions and Examinations Guidelines, Section C — Reassessment of a Grade (page 34).

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 12, for Spring convocations (or October 15 for Fall convocations), 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

Except for University purposes, 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, or other parties specified by the student. 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 at the request of the student if any account with the university is delinquent.

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.

Definition

Limited Enrolment Programs

For purposes of this section of the calendar the following programs are considered limited enrollment programs.

Master of Business Administration
 Master of Library Service
 Master of Public Administration
 Master of Nursing
 Master of Science in Human Communication Disorders
 Master of Social Work

And all programs in the following faculties:

Faculty of Law
 Faculty of Dentistry
 Faculty of Medicine
 Faculty of Health Professions

Residence Fees

Please note that the following are general statements. Because of the diversity of the residence facilities available practises do vary slightly from locale to locale.

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

Residence Fees and Meal Charges 1986/87

Period September 4, 1986, 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 January ⁶
Howe Hall¹					
Single Room	\$3,535.00	\$100.00	\$3,435.00	\$1,750.00	\$1,690.00
Double Room	3,240.00	100.00	3,140.00	1,750.00	1,400.00
Shirreff Hall²					
Single Room	3,500.00	100.00	3,400.00	1,750.00	1,660.00
Double Room	3,300.00	100.00	3,200.00	1,750.00	1,460.00
Residence Houses³					
Single Room	2,050.00	100.00	1,950.00	1,000.00	960.00
Double Room	1,785.00	100.00	1,685.00	1,000.00	695.00
Glengary Apartments⁴					
Single Room	2,100.00	100.00	2,000.00	1,050.00	960.00
Double Room	1,855.00	100.00	1,775.00	1,050.00	715.00
Bachelor Apartment	2,880.00	100.00	2,780.00	1,400.00	1,390.00
Fenwick Place⁵					
Student shared rates:					
2 person	2,520.00	100.00	2,420.00	1,250.00	1,170.00
3 person	1,980.00	100.00	1,880.00	980.00	900.00
4 person	2,050.00	100.00	1,950.00	1,000.00	950.00
Meals Only					
Special rates for session:					
3 meals per day	1,510.00				
2 meals per day	1,450.00				

Charges for the 1987-88 Academic year will be available in May. For further information contact the Student Accounts Office, Financial Services, Arts & Administration Building.

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 \$6.00.

³ Charges include key deposit of \$6.00.

⁴ Charges include caution deposit of \$50.00.

⁵ The \$100.00 prepaid deposit is a damage deposit — see application for details.

The \$10.00 service charge is not applicable

Fenwick fees cover the following time period: September 1, 1986 — April 12, 1987 (Christmas vacation included)

⁶ Charges include service charge of \$10.00

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 \$125.00 residence application fee and 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 Fees

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 September 30. To all accounts outstanding after September 30 interest of 1.25% per month will be charged. On second installments outstanding after February 1 interest of 1.25% per month will be charged. The student will not be permitted to register for another session until all accounts are paid in full. A student whose account is delinquent for more than 30 days will be denied University privileges including access to transcripts and records of attendance, Dalplex and the libraries. The student will be reinstated upon payment of the fees outstanding, the arrears interest, and a \$50.00 reinstatement fee.

Key and Caution Deposits

Key and caution deposits may be charged before admission to residence. Policies vary from residence 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 room and board session is defined as being from the Wednesday in September before classes begin in the Arts and Science Faculty to the last regularly scheduled examinations in the Faculty of Arts and Science in April.

No reduction in the board charge will 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 for permission to stay in residence over the Christmas holidays, if they are unable to return home due to the distance involved. Dining rooms are closed during the Christmas break from the last day of Arts and Science exams in December to the evening before the first day of classes in January.

In Fenwick Place the rental period is based on a 32 week period beginning on Labour Day. For more specific details on dates of semesters students should contact the accommodation office at Fenwick Place.

In all other cases, an additional fee is payable by 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 as specified above for all residences

Room per night: \$14.00

Room per week: \$65.00

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

CIBA Collection Winner for the Second Highest Standing in Anatomy in First Year



Left to right: Mr. Frank Sellers, CIBA Representative; Dr. D.G. Gwyn, Head, Department of Anatomy; Kimberley Jean Hender, CIBA Winner; Dr. T.J. Murray, Dean of Medicine.

Faculty of Medicine

General Information

The Faculty of Medicine of Dalhousie University was organized in 1866, 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.

Graduate Studies

In association with the Faculty of Graduate Studies courses leading to the degrees of MSc or PhD are given. Qualified students may register concurrently for MD and graduate degrees (MSc or PhD) in the Faculty of Medicine.

Research Opportunities

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.

Undergraduates registered in the MD program are encouraged to participate on ongoing research projects within the Faculty of Medicine. Each year applications are received for the summer student research program from first and second year medical students. Scholarships valued at over \$3,100 each year are awarded to a large number of medical students to support their involvement in a wide variety of clinical and basic science research projects from June until August of each summer. Funding for these scholarships is mainly through the Medical Research Council of Canada, with contributions from individual departments and research laboratories 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.

Dalhousie Medical Research Foundation - Studentship Program

The Dalhousie Medical Research 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 makes a limited number of prestigious studentship awards available to highly qualified medical students with a demonstrated interest in and potential for success in biomedical research. The award is open to any first year medical student. The Foundation supports supervised research experience from the end of the first to the end of the third year of medical school with the objective to encourage highly qualified and motivated medical students to consider careers 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 52 hospital beds as well as outpatient facilities was opened in 1977, the original centre having been established in 1956. Undergraduate training and specialty training in Physical Medicine and Rehabilitation are carried out here.

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 two years of the medical course begins early in September and extends to the end of May. The third year begins in early September and ends in late April. It consists of a Junior Clinical Clerkship and required courses. The fourth year is a Senior 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 Advisor Program

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

A 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 Deans. 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 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 a necessity 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 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 23 of the year of expected entry to this Faculty.

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. 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 1984 writing. Admission applications are not accepted from those who intend to take the Test in April 1988 for September 1988 entry.

Information about the new 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, P. O. 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, but it is not required at the time of application.

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. 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. Hepatitis B vaccination is highly recommended for the medical profession as it is at a markedly increased risk of the disease compared to the general population. Vaccination will prevent hepatitis B. It will be given in September and the cost (approximately \$135.00) will be added to your tuition fee. If you have already been vaccinated or feel you should not take the vaccine the money will be refunded. Pertinent literature will be available.

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 March 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 May 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 1986-87

(Subject to change for 1987-88)

The curriculum leading to the MD degree is divided into courses, which range widely in duration. A course may extend into more than one year. Each course is administered by a Course Committee, which is responsible for the implementation and evaluation of the Course.

Although the majority of the curriculum is organized to comply with the organizational structure of the Faculty of Medicine, that is along departmental lines, great care is taken to ensure integration and appropriate sequencing of related material. Many of the courses, particularly in the First and Second Years, are interdisciplinary and organized on the basis of organ systems (e.g. Cardiovascular, Renal) or on the basis of shared objectives (e.g. Human Development, Human Sexuality). All Courses, whether departmental or interdisciplinary, are accountable to the Faculty through the Undergraduate Medical Education Committee (UMEC). As outlined by the Special Committee on Curriculum Assessment (1983), UMEC is responsible to the Dean and to the Faculty in all matters concerning undergraduate medical education. UMEC has executive authority and administrative responsibility for curriculum policy. Specifically it advises the Faculty of its policy decisions concerning undergraduate medical education with respect to the goals and objectives of the curriculum, implementation, examinations and course evaluation; recommends to the Dean the number and types of courses that are necessary to meet the objectives of the curriculum and maintain accreditation; keeps the curriculum under constant review through annual reports submitted by each Course Committee and whatever other data it finds pertinent including unsolicited suggestions from Faculty and students; makes recommendations to the Dean for major changes in the curriculum such as new courses, significant time allocation changes and transfer of course responsibilities; recommends to the Dean the appropriate chairman and members for the course committees based on the submissions of the course committees that are involved; facilitates the achievement of educational goals by working closely with departments and course committees to identify problem areas and suggesting solutions in the context of the overall curriculum; and facilitates good communication among the departments, the course committees, the Faculty and the hospitals.

UMEC reports annually to the Faculty on its activities during the prior and current years and outlines any major changes in the curriculum that are planned for the future. It reports more often at the request of the Dean or when considered necessary. While the executive authority vested in the Undergraduate Medical Education Committee does not require it to obtain Faculty approval for changes it deems necessary, it is recommended, and the Dean may require, that certain changes of

unusual importance be submitted to Faculty for discussion before implementation.

The courses in the 1986-87 curriculum are described briefly below, in alphabetical order, indicating the course committee membership.

Anaesthesia Departmental
Dr. R.A. Baker, Chairman
Dr. D. Imrie

Anatomy Departmental
Dr. D.G. Gwyn, Chairman
Dr. D.M. Chapman
Dr. I.G. Mobbs

Basic Science Clinical Correlation Interdisciplinary
Dr. D.T. Janigan, Co-Chairman
Dr. S. Boudreau, Co-Chairman
Dr. R.W. Chambers
Dr. J.D. Gray
Dr. M.J. Gardner
Dr. R.D. Schwarz
Dr. M.H. Tan

Biochemistry Departmental
Dr. C.W. Helleiner, Chairman
Dr. A.H. Blair
Dr. W.C. Breckenridge
Dr. R.W. Chambers
Dr. M.H. Tan

Blood Interdisciplinary
Dr. B.L. Sheridan, Chairman
Dr. L.A. Fernandez
Dr. V. Ing
Dr. A. Pyesmany
Dr. E. Zayed

Cardiovascular Interdisciplinary
Dr. M.J. Gardner, Chairman
Dr. J.A. Armour
Dr. J. Finley
Dr. J. Cooper
Dr. B.R. MacKenzie
Dr. B. Sheridan
Dr. R.M. Miller
Dr. I.G. Mobbs
Dr. D.A. Murphy

Community Health and Epidemiology Departmental
Dr. L. Wynn, Chairman
Dr. K. Kurji
Dr. F.M.M. White
Dr. P. Ruderman

Death and Dying Interdisciplinary
Professor June Penney, Chairman
Dr. B.E. Favara
Dr. B.K.E. Hennen
Dr. J.F. Nicholson
Dr. S.T. Norvell
Dr. J.D. Gray
Dr. B. Wright

Dr. A. Corvin
Dr. C. Shea

Electives Interdisciplinary
Dr. M. Wilkinson, Chairman
Dr. M. Givner
Dr. J. Holland

Endocrine Interdisciplinary
Dr. W.H. Moger, Chairman
Dr. E.C. Abbott
Dr. S. Salisbury
Dr. A.H. Shlossberg
Dr. M.H. Tan
Dr. S.E. York

Family Medicine Departmental
Dr. I.A. Cameron, Chairman
Dr. B.K.E. Hennen
Dr. D.B. Shires
Dr. B. Oliver
Mrs. M. Hemming

Gastrointestinal Interdisciplinary
Dr. M. Ste-Marie, Chairman
Dr. D. Hirsch
Dr. J.R. Jackson
Dr. D.A. Malatjalian
Dr. I.G. Mobbs
Dr. K. Renton
Dr. R.T. Tanton

Genetics Interdisciplinary
Dr. J.P. Welch, Chairman
Dr. D.E.C. Cole
Dr. E. Winsor

Head and Neck Interdisciplinary
Dr. D.G. Gwyn, Chairman

Human Development Interdisciplinary
Dr. J.M. Dooley, Chairman
Dr. B.K.E. Hennen
Dr. H. Orlik
Dr. J. Weckman
Dr. J.P. Welch
Dr. S. Sullivan

Human Sexuality Interdisciplinary
Dr. Pam Brown, Chairman
Dr. A. Bulley
Dr. F. Krieger
Dr. D. MacDonald
Dr. G. McDermid
Dr. H.C. Still
Dr. C. Wackett
Dr. M. Whitzman

Immunology Interdisciplinary
Dr. A.C. Issekutz, Chairman
Dr. H. Bitter-Suermann
Dr. A.S. MacDonald
Dr. R.I. Carr
Dr. J.V. Jones

Dr. J.M. MacSween
 Dr. D.M. Chapman
 Dr. J. Crocker
 Dr. J. Gatien
 Dr. R.S. Grant
 Dr. T. Issekutz
 Dr. T. Ghose
 Ms. L. Harvey
 Dr. L. Kind
 Dr. B. Pope

Infection Interdisciplinary

Dr. D.E. Mahony, Chairman
 Dr. M. Dalton
 Dr. K.B. Easterbrook
 Dr. J. Embil
 Dr. D. Haase
 Dr. R.S. Martin
 Dr. W. Schlech

Integumentary Interdisciplinary

Dr. J. Klotz, Chairman
 Dr. D.M. Chapman
 Dr. J. Dudar
 Dr. W. Parkhill
 Dr. A.H. Murray

Interviewing Skills Interdisciplinary

Dr. D.B. Shires, Chairman
 Dr. A. Stokes
 B. Prime

Introduction to Clerkship Interdisciplinary

Dr. A. Bodurtha, Chairman
 Professor J. Penney
 Dr. B. Flemming
 Dr. D. Imrie

Law for the Physician Interdisciplinary

Mr. L. Rozovsky, Chairman

Medicine Departmental

Dr. R.T. Tanton, Chairman
 Dr. C.I. Koilpillai
 Dr. D. Hogan
 Dr. S.E. York
 Dr. R.N. Anderson

Musculoskeletal Interdisciplinary

Dr. S. Ahmad, Chairman
 Dr. A. Covert
 Dr. J.V. Jones
 Dr. J.J.P. Patil
 Dr. S.E. York
 Dr. D. Alexander
 Dr. D. Petrie
 Dr. C.L. MacMillan

Neurosciences and Special Senses Interdisciplinary

Dr. P. Camfield, Chairman
 Dr. B. Byrne
 Dr. W.J. Howes
 Dr. C. Maxner

Dr. T. Benstead
 Dr. A. Purdy
 Dr. P. Nance
 Dr. G.M. Novotny
 Dr. B. Doane
 Dr. J. Rutherford

Neurosurgery Departmental

Dr. R. Holness, Chairman

Obstetrics and Gynecology Departmental

Dr. D.C. Young, Chairman

Oncology Departmental

Dr. D.H. Thomson, Chairman
 Dr. J.A. Aquino
 Dr. A. Bodurtha
 Dr. G.M. Fraser
 Dr. R.C. Fraser
 Dr. T. Ghose
 Dr. V. Ing
 Dr. J.A. Myrden
 Dr. A. Pyesmany

Ophthalmology Departmental

Dr. A. Hoskin Mott, Chairman

Otolaryngology Departmental

Drs. G. Novotny / F. Wong, Chairman
 Dr. G.M. Novotny
 Dr. F. Wong

Paediatrics Departmental

Dr. M. Ste-Marie, Chairman
 Dr. D. Smith
 Dr. M. Ste-Marie
 Dr. J.P. Anderson

Pathology Departmental

Dr. G. Rowden, Chairman
 Dr. S. Boudreau
 Dr. J.H. Cooper
 Dr. A.D. Fraser
 Dr. T. Ghose
 Dr. O. Hayne
 Dr. M. MacAulay
 Dr. M. Moss
 Dr. R. McCurdy
 Dr. D. Janigan

Pharmacology Departmental

Dr. P. Dresel, Chairman
 Dr. J.D. Gray
 Dr. M. Vohra
 Dr. T. White
 Dr. K. Renton
 Dr. M. Murphy
 Dr. M. Karmazyn

Psychiatry Departmental

Dr. H. Orlik, Chairman
 Dr. I. Carter
 Dr. S. Hirsch
 Dr. W.O. McCormick

Dr. A. Munro
Dr. N. Sladen-Dew
Dr. A. Stokes

Radiology Departmental

Dr. B.K. Flemming, Chairman
Dr. D.B. Fraser
Dr. E.B. Grantmyre
Dr. J.R. Jackson
Dr. J. Rees
Dr. M. Woolnough

Renal Interdisciplinary

Dr. R.D. Schwarz, Chairman
Dr. G. Jones
Dr. I.G. Mobbs
Dr. N. Morgunov
Dr. R.D. Schwarz
Dr. A. Trillo
Dr. D. Hirsch
Dr. R. Norman

Reproduction Interdisciplinary

Dr. D.C. Young, Chairman
Dr. D.M. Nance
Dr. M. Wilkinson
Dr. I. Zayid

Respiratory Interdisciplinary

Dr. A.R. MacNeil
Dr. C.W. Bugden
Dr. J.G. Holland
Dr. D. Hughes
Dr. D.T. Janigan
Dr. J.H. MacGregor
Dr. D. Bowie
Dr. I.G. Mobbs

Surgery Departmental

Dr. J.A. Myrden, Chairman
Dr. A.C. MacDonald
Dr. M.T. Casey
Dr. H.M. Simms
Dr. D.V. Willoughby
Dr. B.J. Steele
Dr. S.T. Norvell
Dr. R.O. Holness
Dr. D. Bethune
Dr. D. Alexander
Dr. M. Giacomantonio
Dr. R.D. Schwarz
Dr. M. Burnstein

Therapeutics Interdisciplinary

Dr. J.D. Gray, Chairman
Dr. M. Nixon
Dr. I. Cameron
Dr. C.R.T. Dean
Dr. P. Dresel
Dr. M. Karmazyn
Dr. K.W. Renton
Dr. T. White
Dr. J. Downie
Dr. P. Flynn
Dr. A. Goldbloom

Urology Departmental

Dr. S.A. Awad, Chairman
Dr. R.D. Schwarz
Dr. P. Belitsky

First Year

Begins: September, duration: 37 weeks elapsed time.

Required Course Titles	Total Hours
Biochemistry	140
Blood	16
Cardiovascular	70
Medicine	66
Anaesthesia	8
Gastrointestinal	64
Human Development	67
Introductory Anatomy	35
Interviewing Skills	18
Musculoskeletal	63
Pathology	59
Community Health and	
Epidemiology	48
Electives	84
Radiology	3
Renal	36
Reproduction	30
Respiratory	66
Psychiatry	9

Second Year

Begins: September, duration: 37 weeks elapsed time.

Required Course Titles	Total Hours
Blood	21
Cardiovascular	64
Endocrine	35
Gastrointestinal	50
Head and Neck	42
Immunology	37
Infection	80
Musculoskeletal	37
Neurosciences	87
Pharmacology	55
Community Health and	
Epidemiology	16
Psychiatry	30
Renal	28
Reproduction	27
Respiratory	50
Electives	84
Clinical Experience	
—Medicine	90
—Pediatrics	30
—Psychiatry	15
—Surgery	18

Third Year Junior Clerkship 1986-87

Begins: September, duration 31 weeks elapsed time.

Required Clerkship Rotations	
Medicine	8 weeks
Surgery	4 weeks
Pediatrics	4 weeks
Family Medicine	4 weeks

Neurosurgery	1 week
Anaesthesia	1 week
Ophthalmology	2 weeks
Otolaryngology	2 weeks

There is a 3 week elective.

In addition, there are 215 hours of courses (Tuesday and Thursday afternoons only).

Required Course Titles Hours	Total
Neurosciences	41
Genetics	7
Musculoskeletal	17
Therapeutics	15
Reproduction	46
Oncology	6
Blood	7
Immunology	7
Endocrine	9
Infection	10
Law for the Physician	9
Integumentary	7
Death and Dying	6
Human Sexuality	28
TOTAL	215

Junior Clerks are entitled to Statutory and University holidays. In addition, there is a two-week Christmas vacation, plus a ten-day study period prior to the Dalhousie examinations

Fourth Year Senior Clerkship 1986-87

Begins: May, duration: 52 weeks, including 4 weeks vacation. * See note below.

Required Clerkship Rotations

Pediatrics	8 weeks
Medicine	8 weeks
Surgery	8 weeks
Psychiatry	4 weeks
Family Medicine	4 weeks
Urology	2 weeks
Gynecology	2 weeks
Obstetrics	4 weeks
Ophthalmology	1 week
Otolaryngology	1 week
Neurosurgery	31 week
Anaesthesia	1 week
Elective	4 weeks

In addition, 131 hours of Basic Science Clinical Correlates are offered. This Course relates the basic sciences to the students' clinical experience.

* Senior 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.

Proposed Fourth Year Senior Clerkship for 1987-88

Begins in May, duration 52 weeks, including 4 weeks vacation. *See note below.

Required Clerkship Rotations

Medicine	8 weeks
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Surgery	8 weeks
Pediatrics	8 weeks
Psychiatry	8 weeks
Obstetrics	4 weeks
Gynecology	2 weeks
Family Medicine	2 weeks
Urology	3 weeks
Radiology	1 week
Elective	4 weeks

In addition, it is proposed that a course, Basic Science Clinical Correlates, will be offered. *This Course relates the basic sciences to the students' clinical experience.*

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 remedial action 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 occasionally throughout the year 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 Christmas and/or at the end of the school year.

Promotion and Examination

Guidelines 1986-87

(subject to change for 1987-88 academic year)

These guidelines are reviewed annually by the Chief Examiners and the Undergraduate Medical Education Committee (UMEC). The guidelines may, under unusual circumstances be modified during the year. Students will be notified in writing of any such change. Registration in the Faculty of Medicine implies acceptance of these rules and regulations.

A. The Examination Process

Each course decides on its evaluation format, content and the relative weighting of different evaluation components with the prior approval of the Examination Committee. The evaluation reflects the objectives and curriculum of the course. Each course should explain its evaluation plan to students at the beginning of the course.

Evaluation methods may include any or all of the following: written examinations (true/false, multiple choice, short answer, essay), assigned projects, orals, clinical exams (with real or simulated patients), practical exams or subjective evaluation by preceptors (including input from other members of the health care team). *Interim evaluation* is evaluation during a course which contributes to the final mark. *Learning examinations* do not contribute to the final mark.

Examination content is obtained from the individual *teachers*. The content is reviewed for clarity, degree of difficulty and appropriateness by the *Course Committee*. Once the Course Committee is satisfied with the examination items, the items are submitted to the Examination Committee which repeats this evaluation.

The *Examination Committee* for each of the four years is composed of the evaluation representative of each Course Committee, the Chief Examiner (Chair), student(s) from the next most senior year, and Medical Education Unit's Evaluation Coordinator (ex officio) and the Associate

Dean for Undergraduate Medical Education (ex officio). The Examination Committee approves all student evaluation by the Course Committee, including practical, clinical, interim, deferred, remedial and learning examinations.

The examinations are taken at the time and place determined by the Course Committees with the approval of the Examination Committee. The examination *schedule* is set by UMEC with the advice of the Examination Committees. The schedule may not be changed without UMEC approval and adequate prior notification of the students involved. Conduct during examinations is subject to the regulations of the University (see section K later in this document). No student is permitted to leave the examination before, or enter after, 30 minutes have elapsed. Late students will not be permitted extra time. A student who misses an examination without approval in advance from the Dean's Office will be deemed to have failed it until and unless a satisfactory explanation is provided.

Marking is done by computer for multiple choice items and by Faculty members for free response items. All courses, with the exception of Electives, must submit marks that can be numerically included in the aggregate.

If a course has "pass/fail" status, the student must pass that course to pass the year. The designation of a course as a pass/fail subject is made annually by UMEC on the advice of the Examination Committees. In the first and second years of study, generally any course comprising 5% or greater of the curriculum in that year will be a pass/fail subject. Courses too small for individual pass/fail status may be grouped. Only very large courses may require the student to pass individual components of the course, using the 5% guideline. In the third and fourth years, the 5% guideline shall apply for centrally-organized course work. However, all clerkship courses have pass/fail status. The Elective rotations in any single year will be considered a single course for this purpose.

The *student course committee representatives* of the academic year under discussion meet as a group with the Chief Examiner of that year (Chair), the Associate Dean of Undergraduate Medical Education, the Associate Dean for Student Affairs, the Director of the Medical Student Advisor Program and MEU Evaluation Coordinator to identify student concerns about the course or its evaluation. This meeting takes place before the Pass/Fail Consultation meetings. After examination marking the results are reviewed by the Evaluation Representative of each Course Committee with the MEU Evaluation Coordinator. Items which, in retrospect, were incorrect or unfair are removed from consideration. Once the Evaluation Representative is satisfied with the reliability and validity of the exam, the marks are discussed at the *Pass/Fail Consultation* meeting. Those in attendance are the Course Committee Chairmen and/or Evaluation Representatives, the Associate Dean of Undergraduate Medical Education (Chair), the Chief Examiner, the Associate Dean of Student Affairs, and the MEU Evaluation Coordinator. The Course Committee representatives, with the advice of the others present, review the raw scores and determine if these can be accepted unchanged or if the scores need to be scaled.

Scaling is only done where there is a clear indication of an anomaly in the raw scores (e.g. an exam which was much more difficult than intended) The mark after scaling (even if no scaling is done) is the "Dalmark," expressed as a percentage.

At the Pass/Fail Consultation meeting, the determination is made whether each student passes, passes with distinction or fails in that course. The pass mark for each course is 55% or greater and the distinction criterion is 80% or greater on Dalmarks. Although experience has shown that an average of 5-10% of each class will obtain a failing mark and 5-10% a distinction in each course, there is nothing in the examination system to prevent all students from passing (or failing).

The process by which raw scores are converted to Dalmarks is outlined in the following excerpt from the computer program

documentation:

2.0 Convert the raw score to a Dalhousie mark (Dalmark) using the following formulae for straight lines:

2.1 Calculate m and b of line formula in y-intercept form where

$$y = mx + b$$

y is Dalmark

m is Slope

x is Raw Score

b is y-intercept

using minimum distinction raw score for Dalmark = 80

and minimum pass raw score for Dalmark = 55 solve for m

$$80 = m (\text{minimum distinction}) + b$$

$$55 = m (\text{minimum pass}) + b$$

$$25 = m ((\text{minimum distinction}) - (\text{maximum pass}))$$

Substitute for m in top 2 equations and solve for b.

2.2 Calculate each student's Dalmark using m and b for that subject. If percentages 80 and 55 are used, then b is 0 and raw scores are just converted to percentage out of 100.

Only the Dalmarks have legitimacy from the perspective of passing, failing or receiving distinction in a course and for the aggregate. The Dalmarks from each course are *weighted* in proportion to that course's contribution to the curriculum of that year and then summed to get the aggregate. The weighting factors are determined annually by UMEC with the advice of the Examination Committees.

Results are submitted to the *Promotions Committee* which meets at year end. A separate Promotions Committee (for each year) is composed of the Dean of Medicine, the Associate Dean of Undergraduate Medical Education (Chair), Associate Dean of Student Affairs, the Chief Examiner, the Chairman or Evaluation Representative of each Course Committee with pass/fail status in the year under discussion, the Medical Education Unit Evaluation Coordinator, the D.M.S.S. Vice-President for Medical Education and the Class President.

Based on information from each pass/fail consultation and other available information, the Promotions Committee decides which students to recommend to Faculty for: pass, fail, distinction, supplemental examinations, repetition of a year or withdrawal from the study of medicine. The Promotions Committee cannot change a mark or permit a student to advance who has not met the academic criteria. A student must pass all courses with pass/fail status. In addition, a student must attain 60% of the aggregate (in Dalmarks) to be promoted to the next year. The criteria used by the Promotions Committee in making these decisions are described in the sections which follow and are tabulated as an Appendix to this document.

In considering students in jeopardy, the Promotions Committee reviews the case of each student individually, taking into account all information pertaining to the student's academic record and performance. Students experiencing personal or health problems which interfere with academic performance should identify these problems to the Associate Dean of Student Affairs or the Associate Dean for Undergraduate Medical Education. If the student prefers, he or she may describe such special circumstances in a letter within a sealed

enveloped labelled "only to be opened in the event of academic difficulty." The Promotions Committee may use its discretion in interpreting and applying these Guidelines in deciding whether to permit a student to attempt supplemental examinations or repeat a year.

The Promotions Committee reports to *Faculty*. Student representatives, the DMSS Vice President for Medical Education and the Class President, attend the Faculty meeting. Faculty confirms the Promotions Committee report unless Faculty wishes any decision of the Promotions Committee reconsidered. In that case, the Promotions Committee will reconsider and report again to Faculty. Faculty may only overrule the final Promotions Committee report by a vote of two-thirds of the members present.

The role of the students on the Promotions Committee and at the Faculty meeting is to present the student perspective during discussion and to assure fellow students that the process has been fair. Student representatives are not expected to solicit information in advance about the special circumstances of students in jeopardy. Nor are they expected to communicate to students the recommendations of the Promotions Committee or the decisions of Faculty.

B. Reviewing an Examination

After a student has received marks on an examination, he may review the examination and his answers in the presence of an invigilator by arrangement through the MEU Evaluation Coordinator on a single occasion up to 8 months after the examination. Notes taken during the review are subject to the approval of the invigilator.

C. Reassessment of a Grade

A student may request a remarking of any or all examinations by a formal request to the Dean's Office within 30 days of the release of marks. No remarking will take place until after this deadline. There is a \$50 fee for each examination. Two independent individuals will perform the remarking and will be unaware of the original grades assigned. Several other randomly selected papers will be remarked for comparison. The average of the two new marks replaces the old mark whether higher or lower.

D. The Appeals Process

Any student may appeal a Promotions Committee's decision if the student feels unjustly treated or if new information pertinent to the decision is brought forward. The appeal, in writing, should be directed to the *Dean of Medicine* outlining the new information or perceived injustices. An appeal must be made within one year of the date of notification of the promotions decision. If the Dean feels there is basis for an appeal he directs the request to the *Faculty Council*. Members of the Faculty Council who were members of the Promotions Committee involved in the promotion decision of the student are excluded from participation in the appeal. The Associate Deans of Student Affairs and Undergraduate Medical Education are permitted to give factual information but may not give an opinion or discuss the appeal. The student, by request, may appear before Faculty Council with or without legal counsel.

Should Faculty Council make a decision different from that previously made by the Promotions Committee and approved by Faculty, this must be reported to Faculty who may only overrule the Council's decision by a two-thirds vote of the members present.

After exhausting the Faculty appeal procedure, further appeal may be made to the *Senate Academic Appeals Committee* (rules and procedures for appeals may be obtained from the Secretary of Senate).

All appeals must be concluded before a student may be readmitted to classes and no student will be admitted to any year after classes have commenced in that year.

E. Supplemental Examinations

A student with an average between 60% and the class mean who has failed no more than three pass/fail subjects may be permitted supplemental examinations at the discretion of the Promotions Committee. A student with an average above the class mean will be permitted an unlimited number of supplementals. A subject mark of 55% (Dalmark) will be awarded to students who pass a supplemental examination. This is intended as a disincentive to students to independently reduce their course load by not studying that course until the summer recess.

The nature and timing of the supplemental examination and of the remedial program required before the supplemental examination will be determined by the course chairman, with the approval of the Chief Examiner. Ordinarily, for Med I and II, supplemental examinations are held in the second week of August. For students in Med III and IV, the remedial work and supplementary evaluation may take place in the Elective or Vacation rotations. The order of rotations of a fourth year student requiring remedial work in Med III may need to be changed to allow the student to simultaneously complete third and fourth year requirements in a course. Due to the absence of a break between third and fourth year, the amount of remedial training necessary after third year may not exceed eight weeks. There is a \$25 fee for each supplemental examination.

F. Deferred Examinations

Any student who is experiencing personal or health difficulties serious enough to jeopardize academic performance should notify the Dean's Office as soon as possible and, if an illness is involved, provide documentation on a form available from the Dean's Office. See also Section I as some illnesses of a chronic and recurring nature may render a student unfit for the study and practice of medicine. Exam results cannot be adjusted after they are written, but in critical situations deferment of the examination may be possible. Anyone having health problems during the examinations should immediately notify the examination official. A student requesting permission to do a deferred examination must submit a formal written request on a form available from the Dean's Office, providing all requested information. A panel consisting of the Associate Dean for Undergraduate Education, the Associate Dean for Student Affairs and the Chief Examiner will decide whether to permit a deferred examination.

Examinations deferred with the prior approval of the Dean's Office will generally be written at the time of supplemental exams. Although deferred examinations are based upon the same objectives as the regular final examinations, the format may be different (e.g. an oral rather than a written examination). Ordinarily, unless a student has an average above the class mean, a student will not be permitted summer work and evaluation in more than three courses (total of supplemental and deferred examinations) and may be required by the Promotions Committee to repeat the year.

As there is not time for remedial instruction in the event of a failure, a failure will have the same consequences as a failed supplemental. "Distinctions" will not be awarded at deferred examinations. There is a \$25 fee for each deferred examination.

G. Examinations in Other Centers

In exceptional circumstances, examinations may be taken in other centers if satisfactory arrangement for invigilation can be made. The student must submit a written request to the MEU Evaluation Coordinator at least two months before the examination. The request must be approved by the Course Chair and the Chief Examiner. Fees for invigilation shall be paid by the student. Only written examinations may be taken in other centers.

H. Repeating a Year

Any student who has not satisfied the promotions criteria for promotion or for supplemental examinations, but has an average mark of 50% or more and is considered fit for the study and practice of medicine may be permitted to repeat a year. This decision is made by the Promotions Committee in the light of academic and other information. A student with a single poor year and otherwise 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 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 during the undergraduate program. In a repeat year supplemental examinations are only permitted when the student's average mark is at least equal to that of the class mean. Once having successfully completed a repeat year, the student in subsequent years is permitted supplemental examinations like any other student.

A student with subject failures at Christmas final examinations must complete the academic year if the student is to be considered for permission to repeat the year unless there are compelling personal or health problems.

I. Withdrawal from the Study of Medicine

Any student with an average mark of less than 50% or who fails more than 5 subjects in a year will be required to withdraw. A student in a repeat year who fails an examination or a supplemental examination (if permitted as outlined above) will be required to withdraw.

Notwithstanding these guidelines, Faculty may require a student to withdraw if judged to be unsuitable in 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, recurrent illness or some types of conduct unbecoming to a member of the medical profession, may be grounds for dismissal, non-promotion or suspension. Aptitude and fitness for the profession of Medicine, as determined by the Faculty and its Course and Examination Committees, are requirements for promotion.

The following list of examples illustrate the criteria used to assess aptitude and fitness. This list should not be considered to exclude other such behaviors:

- (i) conviction of criminal activity (e.g. drug trafficking, grand larceny).
- (ii) persistent substance abuse (e.g. alcoholism, drug addiction, use of illegal drugs).
- (iii) any medical condition which affects an individual's ability to perform as a physician, particularly if that condition is chronic and recurring and affects judgement. Recurrent or prolonged illness will require that the student obtain documentation of the impact of that illness on academic performance and on the fitness of the student for the study and practice of Medicine. If the student's physician indicates that the illness is highly likely to affect the ability to perform as a physician, the student will be evaluated by a panel of three faculty members appointed by the Associate Dean of Undergraduate Medical Education. This panel will consider the student's situation in confidence and shall advise the Promotion's Committee whether the student is fit for the study and practice of Medicine.

(iv) unethical behavior (see CMA Code of Ethics and Hippocratic Oath).

(v) irregularities in evaluation procedures (see Section K below).

J. Absence from Medical School

In exceptional circumstances a leave of absence may be approved in

advance by the Associate Dean of Undergraduate Medical Education. Normally, apart from documented illness, a student absenting from medical school without prior permission for an extended period will be presumed to have withdrawn and will not be readmitted.

If a student is to be readmitted following an absence from the medical school, the Associate Dean of Undergraduate Medical Education will determine at which level the student may re-enter. An examination may be required.

K. Irregularities in Evaluation Procedures

A student 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 impersonation at any examination or test.
- (ii) attempting to secure or accepting assistance from any other person at any examination or test.
- (iii) having in one's possession or using any unauthorized material during the time that one is writing an examination or test.
- (iv) without authorization procuring a copy of an examination, test, or topic for an essay or paper.
- (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.
- (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.

The Senate Discipline Committee, when it finds that a student of the University 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.

L. Graduation

A student must have completed and passed all components of the curriculum before convocation. For students in their final year who have been unable to do so due to outstanding remedial work or the need to complete work missed due to illness, graduation at the Fall convocation will be possible.

To determine the students who will graduate with Distinction, the marks and distinctions from all four years are considered. This determination is made by the Awards Committee, as are other decisions about graduation awards and prizes.

See Criteria Guiding Promotion Decisions Table on following page.

Criteria Guiding Promotion Decisions

Promotion Decisions	Individual Courses with Pass/Fail Status	Average Mark (%) Based on Aggregate	Fit for Study of Medicine
Pass the Year	Pass in All	60% or greater	Yes
Fail with Opportunity to do Remedial Work* and Supplemental Exams	3 or fewer failures	60% or greater but less than class mean	Yes
	unlimited failures (includes students repeating year)	Class mean or greater	Yes
Fail with Permission to Repeat the Year	1 or more failure in supplemental or deferred exam	60% or greater	Yes
	4-5 failures inclusive	60% or greater	Yes
	Pass in all	50%-59% inclusive	Yes
Withdrawal from the Study of Medicine	1 or more failure in repeat year	60% or greater but less than class mean	Yes
	5 or fewer failures	less than 50%	Yes
	more than 5 failures	50% or greater	Yes
	Pass in all	60% or greater	No

*Note that, due to the absence of a break between third and fourth year, the amount of remedial training necessary may not exceed 8 weeks for third year students only.

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 all 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.

Programs and Directors

Anaesthesia

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

Diagnostic Radiology

Dr. D.R. Campbell, Department of Radiology

Gastroenterology

Dr. C.N. Williams, Department of Medicine

Geriatric Medicine

Dr. R.A. Fox, 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. J.L. Sapp, 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

Nuclear Medicine

Dr. D.R. Campbell, Department of Radiology

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. 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.

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

D.M. Nance

R.J. Wassersug

Associate Professors

J.R. Asuncion, Jr.

R.E. Clattenburg

M.M. Hansell

D.A. Hopkins

R.A. Leslie

I.G. Mobbs

J.C. Penney

J.G. Rutherford

V.G. Vethamany

Assistant Professors

R.W. Currie

P.C. Jackson

J.A. Matsubara

J.E. Scott

Lecturer

I. Samad

J.D. Shaw

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 Course — An introductory course which

includes cytology, histology of the tissues and a description of human development to the end of the embryonic period. There is a section introducing basic concepts and principles of gross anatomy as applied to all systems of the body.

2. Blood Course — three hours of instruction covering the cytology of normal blood as demonstrable by the light microscope and by electronmicrographs.

3. Respiratory Course — 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 Course — 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 Course — 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 Course — 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 Course — 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 Course — 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 Course — 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 Course — 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 Neurosciences Course and also prepares the student for studies in neurology, neurosurgery, ophthalmology and otolaryngology.

11. Endocrine Course — a course that covers the development and

histology of the endocrine glands.

Suggested Texts: (ones which the student should buy) Moore, *Human Anatomy*; Gardner, Gray, O'Rahilly, *Anatomy — A Regional Study*; Saverland, *Grant's Dissector*; Grant, *Grant's Atlas of Anatomy*; Junqueira 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, *Anatomy: A Regional Atlas of the Human Body*; Healy, *Synopsis of Clinical Anatomy*; O'Rahilly, *Anatomy, 5th Ed.*; Bloom & Fawcett, *A Textbook of Histology*; Fawcett, *The Cell (an atlas of fine structure)*; Ham & Cormack, *Histology*; Carpenter, Strong & Elwyn's *Human Neuroanatomy*; 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.

General Studies: 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 educations (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 (217R/2170R), microanatomy (216A) and neuroanatomy (210B) are offered to Physiotherapy and Occupational Therapy students.

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

Neuroanatomy 210B/Biology 3440B

Human Histology 216A/Biology 3430A

Comparative Vertebrate Histology/Biology 3421B

Anaesthesia

Professor and Head of Department

C.E. Hope

Professors

E.A. Moffitt

I.E. Purkis

J.K. Rosales

W.D.R. Writer

Associate Professors

A.A. Drysdale

K.W. Fairhurst

J.H. Feindel

D.D. Imrie

J.W.D. Knox

P.M. Leavitt

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

D.L. Morrison

J.D. Morrison

C.A. Murchland

D. Oxorn

D.A. Rideout

J.A. Smith

J.C. Thomson

Lecturers

A.J.M. Clark

A. Finley

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

H. Yazer

Clinical/Teaching Fellows

R. Bourne

A. Campbell

K. Dauphinee

B. Gallacher

W. Gornall

R. Hall

G. Johnstone

G. Launcelott

B. MacManus

J. Muir

J.T. Murphy

P.N. Nicholls

S. Pytka

R. Toma

G. Whatley

The Department of Anaesthesia provides general, regional and local anaesthesia for all types of general surgery, neurosurgery, cardiovascular surgery, urology, gynecology, plastic and orthopedic surgery, and obstetric and pediatric anaesthesia 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 anaesthesia and acute care medicine, and illustrate the application of the basic sciences of physiology, pharmacology and anatomy to anaesthesia. 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 two-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 Anaesthesia, acquiring specific skills or investigating a particular topic.

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

Internship

Four weeks may be taken in Anaesthesia 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

J.A. Verpoorte

S.D. Wainwright

Associate Professors

P.J. Dolphin

R.G. Fenwick

F.I. Maclean

R.A. Singer (major appointment in Medicine)

Assistant Professors

M.W. Spence (major appointment in Pediatrics)

M.H. Tan (major appointment in Medicine)

Lecturers

D.M. Byers (major appointment in Pediatrics)

H.W. Cook (major appointment in Pediatrics)

D.E.C. Cole (major appointment in Pediatrics)

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 interdisciplinary courses.

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
4404B	Gene Expression
4602R	Honours Project and Thesis
4700A	Physical Biochemistry
4701B	Enzymes
4800R	Clinical Medical Biochemistry
4801R	Introduction to Pharmacology
4802R	Principles of Instrumentation

Classes for Health Professions Students

Biochemistry 3100R: Introductory Biochemistry for Pharmacy Students.

Chemistry/Biochemistry 1420R: (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

H. Addy (Commonwealth Visiting Fellow)

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 (joint 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 School for Resource and Environmental Studies)

J.B. Garner (joint appointment in Mathematics)

Assistant Professors

W.F. Schleich (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

Lecturers

K.H. Kurji

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

L.L. McIntyre (Hospital Epidemiologist, IWK)

E. Mintz

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

Acting Head of Department

D. Gass

Professors

B.K.E. Hennen

D.B. Shires

Associate Professors

C. Abbott (major appointment in Medicine)

D.C. Brown

I. Cameron

D. Gass

N. Hansen

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

R. Lea (major appointment in Obstetrics/Gynecology)

M. MacCara-Reid

H.I. MacGregor

B. Prime-Walker

W. Wrixon (major appointment in Obstetrics/Gynecology)

Lecturers

M.R. Banks

J. Boxall

D.V. Brien

F. Crombie

J. Curry (major appointment in Surgery)

G. duBois

M. Duncan

L. Freedman

M. Goodfellow

W.L. Johnson

M. Keating

L.A. Kempton

S. Klynstra

E.A. MacLeod

L.L. Morgan

E.V. Phillips

B.L. Reid

H. Ruparelia

R.F. Scharf

J.A. Smith

K.P. Smith

M.L. Smith

Murdock Smith

J.G. Sommers

E.J. Taiani

Instructors

S. Dyer

M. Fleming

S. Gibson

J. Morse

W. Morse

N. Woulff

Senior Clinical Instructor

T. Atkinson

Clinical Instructors

R.L. Anningson

C. Aquino-Parsons

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

P. Champion

D.J. Cheverie

C. Childs

D. Clark

M. Clark

L. Cloutier-Robinson

D. Cogswell

R. Cooper

D.E. Craig

R.T. Craig

P. Davis

G. Dimitriadis

M. Dingle

J.M. Fitzgerald

K. Gill

R. Gill

F.S. Goodine

E. Gozna

E. Guptill

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

C. Johnston

G. Jollymore

J. Kazimirski

M. Kazimirski

J.W. Keddy

S. Keyes

R.A. Killeen

P. Kinsman

A.N. Lamplugh

D.F. Lewis

N.A. Lister

J. MacDonald

C. MacDougall

D.B. McDonah

A.W. McLaughlin	J. Sacamano
J.W. McNabb	J. Savage
M.S. McQuigge	J.B. Shaw
R. Mishra	M. Shaw
F. Moriarty	F.E. Slipp
C. Moyse	C.B. Stacey
P. Newton	A. Steeves
E. Nurse	D.I. Stewart
J.F. O'Connor	P. Sturmy
R. Oliver	B.H. Tomilson-Ashley
L.S. O'Neil	M. Trager
A.H. Parsons	T. Wade
W.H. Patterson	R. Washburn
M.P. Quigley	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

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.

Fourth Year Medicine

All students have two weeks of clinical clerkship in Family Medicine. Most of these experiences are in community practices outside of the metro area. This is an extension of the third year clerkship. Evaluation is by preceptors assessment.

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
 C.W. McCormick
 T.J. Montague
 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
 T. Benstead
 G. Bloomberg
 D.M. Bowie
 B.J. Cookey
 G.C.B. Elder (major appointment in Recreation, Phys. and Health Ed.)
 P.L. Emenau
 M. Garder
 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
 M. Henderson
 D. Hirsch
 D. Hogan
 B.M. Horacek (major appointment in Physiology/Biophysics)
 V. Ing
 D. King
 J. Klotz
 C. Koilpillai
 O. Koller
 L. Lalonde
 R.G. Macdonald
 P.A. MacGregor
 N. MacIntosh
 A.R. Macneil
 D.A. Malatjalian (major appointment in Pathology)
 E.O. Mann
 J.M. Marsh
 C.E. Maxner
 J.J. McKiggan
 D. McMahan
 R.T. Michael
 R.A.W. Miller
 A.H. Murray
 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

P. Bailey
 R. Bessoudo
 D. Bewick
 J.B. Bewick
 A.W. Cockeram
 P.A. Crofts
 M.T. Dalton (major appointment in Pathology)
 G.H. Farboody
 A. Foyle (major appointment in Pathology)
 E. Grant
 E.R. Harrision
 P.C. Joshi
 B. Knight
 R. Lodge
 N. MacDonald
 D. Marr
 A.D. McDougall
 M.J. McGonigal
 M. O'Reilly
 J.C. Pond (major appointment in Pathology)
 M. Reardon
 P.H. Reid
 B.L. Sheridan (major appointment in Pathology)
 W. Sheridan
 D. Simpson
 R. Wierzbicki
 E. Zayed (major appointment in Pathology)

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 course 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 interdisciplinary course 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 course 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. Junior clerkship medicine: The Department offers an 8 week experience for all third year medical students. This course runs throughout the academic year and permits the student the opportunity of assessing and reviewing with their assigned preceptor two new cases per week. The Department's Clinical Teaching Units at the Canadian Forces Base Hospital, Camp Hill Hospital, Nova Scotia Rehabilitation Centre, Halifax Infirmary, and the Victoria General Hospital are involved in this program. Each week students are assigned and expected to work-up two patients for presentation to their assigned preceptor. The emphasis on the program is the compilation of 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 a problem-oriented medical record. The student is expected to do appropriate background reading to formulate a diagnostic and therapeutic plan for solving the patient's difficulties. The data base and problem formulation are reviewed by the assigned preceptor. An attempt is made to relate the underlying pathophysiology with the clinical presentation. An introduction to the utilization of laboratory investigations and practical therapeutics is done. In addition to the patient contact exposure, the Department also runs a didactic series for the students during their rotation. The basic textbook recommended for the course is: *The Principles and Practice of Medicine* by Harvey et al. This text may be supplemented by reading more detailed textbooks such as Harrison's *Principles of Internal Medicine* and Beeson and MacDermott's *Textbook of Medicine*.

2. System course 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, Respiriology, 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 (Rll) 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 internship: This is an eight-week rotation 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, Respiriology, Endocrinology, Cardiology, Gastroenterology, Hematology-Oncology, Physical Medicine and Rehabilitation, Rheumatology, Nephrology and 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, Rheumatology, Endocrinology and Geriatrics.

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, Respiriology, Cardiology, Clinical Pharmacology, Endocrinology, 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 and Halifax Infirmary with elective rotations in Pathology and Radiology or to the Izaak Walton Killam Hospital for Children and Camp Hill Hospital.
6. **Hematology:** This is an approved program based at the Victoria General Hospital with rotations to the Izaak Walton Killam Hospital for Children and the Hematology Laboratories.
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.
9. **Endocrinology:** This is an approved two-year program based at the Halifax Infirmary.
10. **Geriatrics:** This is an approved two-year program based in Camp Hill 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 (joint appointment in Pediatrics)
T.B. Issekutz (major appointment in Pediatrics)
T.J. Marrie (joint appointment in Medicine)
R. Rajaraman (joint appointment in Medicine)
W.F. Schlech (major appointment in Medicine)
A.J. Wort

Lecturers

G. Faulkner
T.J.M. Haldane
A.J. MacLeod (major appointment in Medicine)

Second Year Medicine

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

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

Third Year

A 14-hour continuation of the Infection Course 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

Second Year: Immunology as described for second year medicine.
Microbiology: This class, which commences in the first trimester of Second Year and continues to Christmas, 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 3033A: Microbial Genetics.

Microbiology 3114A: Introduction to Virology.

Microbiology 3115A: Introduction to Immunology.

Microbiology 3118B: Medical Bacteriology.

Microbiology 4022A/B: Microbial Ultrastructure Project.

Microbiology 4024B: Microscopy.

Microbiology 4026B: The Mammalian Cell

Microbiology 4027B: The Cancer Cell

Microbiology 4033B: Advanced Microbial Genetics.

Microbiology 4114B: Topics in Basic and Medical Virology.

Microbiology 4115B: Immunology.

Microbiology 4301A: Advanced Immunology I.

Microbiology 4302B: Advanced Immunology II.

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 Course Teaching Program for third year students with a coordinated approach to all aspects of neurological disease.

Students also 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 and Physics)
M.G. Tompkins
W. Wrixon

Associate Professors
A.C. Allen (Major appointment in Pediatrics)
B.St.J. Brown (Major appointment in Radiology)
T.F. Baskett
L.M. Higgins
R.H. Lea
Y.M. Ling
E.R. Luther
W. Moger (Major appointment in Physiology and Biophysics)
M.R. Oulton
I.A. Perlin

E. Rees (Major appointment in Pediatrics)
D.L. Stinson (Major appointment in Pediatrics)
R.D. Webster
E. Winsor (Major appointment in Pediatrics)
W.D.R. Writer (Major appointment in Anaesthesia)

Assistant Professors

T.P. Corkum
N.N. Isa
D.W. Johnston
J. Jeffrey
R.M. Liston
R. Loebenberg
C.A. Maley
C. Nwaesei (Major appointment in Pediatrics)
E. Pereira
K.E. Scott (Major appointment in Pediatrics)
D.F. Smith
M. Wilkinson (Major appointment in Physiology/Biophysics)
D. Young

Lecturers

F.W. Ahman
E.M. Andrade
K. Cox (Major appointment in Pediatrics)
H.L. Lord
D.A. Mitton
R. Popat
L.J. Stirk
M. Vincer (Major appointment in Pediatrics)
J.B. Wenning
A. Zilbert

Clinical Instructors

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

A.E. Hoskin Mott
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
C. Maxner
R.B. Pretty
R.M. Read
G.A. Sapp

Third-Year Medicine

Junior Clerks spend 2 weeks rotating through the Department attending general and special clinics. They are exposed to the diagnosis and management of emergency ophthalmological problems. Time is spent at the I.W.K. reviewing pediatric ophthalmology as well as viewing audio visual material, attending rounds and observing surgery.

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

Clinical clerks also spend two weeks 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

G.T. Mencher (Audiology)
F.S.H. Wong

Assistant Professors

C.C. Cron
J.D. Donaldson
G.F. Martin
R.S. Murphy
M.S.C. Sekaran
M.N. Wali
K.E. Walling

Lecturer

V.D. Ketene

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 course.

Third-Year Medicine

Instruction is given on diagnosis, treatment and pathology of diseases of the ear, nose and throat; including 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*.

A two-week rotation is also 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.

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 Pediatrics)

T. Ghose
 D.T. Janigan
 G. Rowden (cross appointment, Associate Professor, Medicine)
 I. Zayid

Associate Professors

H. Blair (Major appointment in Biochemistry)
 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 Pediatrics)
 C.L. Cousins
 A.A. Covert
 K.C. Dooley
 L.C. Dymond
 A. Foyle
 A.D. Fraser
 R. Gupta
 S.U. Khaliq
 A.G. Lacson
 S.J. Luner
 R.F. McCurdy
 M. Moss
 M.S. Ramsey (major appointment in Ophthalmology)
 B.L. Sheridan
 A.J. Wort

Lecturers

A. Bernardo	D.M. Murphy
S.F. Boudreau	N.N. Sarkar
C. Galliani	H.T. Tran
I. Mikhail	E. Zayed

Instructors

S. Robertson
 J. Survis

Demonstrator

J. Cadeau

First-Year Medicine (General Pathology)

This is a course of 59 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 interdisciplinary courses 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 course 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.

Pediatrics

Associate Professor and Acting Head of Department
 E.P. Rees

Professors

M.M. Cohen Jr. (major appointment in Dentistry)
 J.F.S. Crocker

B.E. Favara (major appointment in Pathology)
 D.A. Gillis (major appointment in Surgery)
 R.B. Goldbloom
 D.L. Roy
 M.W. Spence
 J.P. Welch

Associate Professors

A.C. Allen
 J.P. Anderson
 P. Bagnell
 T.F. Baskett (major appointment in Obstetrics)
 R.A. Bortolussi
 C. Camfield
 P.R. Camfield
 H.W. Cook
 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)
 A.C. Issekutz
 E.R. Luther (major appointment in Obstetrics)
 R.G. Macdonald
 B.S. Morton
 M.A. Nanton
 H. Orlik (major appointment in Psychiatry)
 A.F. Pysemary
 S. Salisbury
 K.E. Scott
 M. Ste-Marie
 D.A. Stinson

Assistant Professors

D.R. Barnard
 D.M. Byers
 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
 T. Issekutz
 S. Keet
 G.R. LaRoche
 R.M. Liston (major appointment in Obstetrics)
 L.K. McNeill
 C.G. Nwaesei
 M.R. Ogborn
 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
 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.E. Shea
 S.S.C. Siau
 P.M. Sigsworth
 D. Smith
 D.J. Smith
 R.I. Smith
 C.M. Soder (major appointment in Anaesthesia)
 D. Stephen
 S. Sullivan
 M. Vincer
 J. Weckman
 P. Wren
 M. Yhap

Clinical Fellow

C. Forsythe

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. Students also attend the neonatal nurseries of the Grace Maternity Hospital to develop experience and understanding of medical problems of the newborn infant.

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.

Third-Year Medicine

Students spend one month at the Izaak Walton Killam Hospital as part of their Junior Clerkship. Students have an opportunity to work-up and follow in-hospital patients. Supervised sessions by teaching clinicians are designed to refine their history taking and physical examination skills and to emphasize diagnostic, therapeutic and preventative aspects of common medical problems in children. They attend weekly seminars in infectious diseases, respiratory diseases, nephrology and neonatology. Students are required to discuss and complete a series of learning modules with terminal objectives on common pediatric problems.

Suggested Text Book: Ziai, *Bedside Pediatrics*.

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 250 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 three years of training cover the core requirements established by the Royal College of Physicians and Surgeons of Canada. Specific rotations will include the Emergency Department, Ambulatory Clinics, In-patient general Pediatric wards, Newborn Intensive Care Units, Pediatric Intensive Care Unit, Pediatric Surgery, Child Psychiatry, and many of the Pediatric subspecialty services. The fourth year of the program can usually be individually designed to meet the specific training needs and interests of the resident.

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, Surgery, 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 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

A.K. Reynolds (Post-retirement)

K.W. Renton

M.M. Vohra

T.D. White

Associate Professors

J. Gray (major appointment in Medicine)

M. Karmazyn

G.M. McKenzie

B.L. Pope

H.A. Robertson

J. Sawynok

Assistant Professors

L.A. MacDonell

M.G. Murphy

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 gastrointestinal, renal-metabolic and infection courses are designed to emphasize the application of pharmacological principles to the management of clinical problems.

The Clerkship Years

The Department takes part in the formal teaching of therapeutics to the Year III clinical clerks. This is under the aegis of the Therapeutics Teaching Block. The department actively participates in the Basic Science Clinical Correlation teaching to Year IV clinical clerks.

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 3470.

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 (major appointment in Research and Technology Transfer)
B.M. Horacek
M. Horackova
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

R.M. Douglas
J.D. Dudar
J.G. Holland
W. Ling (major appointment in Department of Obstetrics and Gynecology)
D.D. Rasmuson

Assistant Professors

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

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. The block system is currently under review and may be abandoned in favor of department-based teaching.

First-Year Medicine

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

Cardiovascular Course: 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.

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

Renal Course: 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 course in the first term. As well as lectures, the course includes small group tutorials, clinical demonstrations and laboratory demonstrations.

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 systems.

Third-Year Medicine

The basic science content of teaching during the new third year clerkship is being monitored by a departmental representative on UMEC.

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, 2nd. ed.1985.

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 101R: (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	J.B. O'Regan
A. Corvin	H. Orlik
C.J. David	H. Poulos
P. Deom	P. Reynolds
J. Gold	E.M. Rosenberg
J.D. McLean	A.M. Shane
D. Mcpherson	A. Stokes

Assistant Professors

S.H. Akhtar	I.A. Kapkin
W. Birnie	L. Kovacs
L.M. Buffett	A.W. Kushner
I. Carter	W.G. MacDonald
J. Connolly	A. Ravindran
I.A.A. deCoutere	C.E. Taylor

Lecturers

C.M. Abbott	H. LePage
N.P. Allison	D. MacDonald
K.V. Covert	M. Michalon
J. Curtis	J.V. O'Brien
B.A. Doan	K. Quirk
F. Freeman	N. Sladen-Dew
R. Gates	E.A. Smith
G. Gordon	M. Teehan
R. Howard	D. Whitby
W. Junek	R.V. Worling
B. Kessler	N. Wouff
A. Kubacki	

Instructors

S. Brooks	M.S. Muthu
R. Forsythe	P. Pearce
G. Gray	S. Russell
A. Hipwell	B. Spears
P.K. Malaviaraclchi	M. Virey

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 Course. 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.

Fourth-Year Medicine — Clinical Clerkship

The student spends an eight-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, or the Nova Scotia Hospital, as well as the Izaak Walton Killam Hospital for Children Outpatient Clinic and the Atlantic Child Guidance Centre. The student is involved in treatment responsibility for suitable patients, under supervision. Intensive seminar series on important psychiatric conditions is carried out during this eight-week period.

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 patients 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
C.L. Belcourt
D.R. Campbell
L.A. Fried
J.R. Jackson
R.H. James
A.J. Johnson

G.P. LeBrun
G.E. Lund
A.D. MacKeen
C.L. MacMillan
W.F. Mason
J. Rees
L.J. Stevenson

Assistant Professors

J. Andrew
J. Brander
B.D. Byrne
J.S. Caines
W.N. Covert
B.K. Flemming
G.R.M. Jones

I.M. MacLeod
R.H. Martin
R.M. Miller
J.D. Moir
M.P. Shannon
A.J. Shaw
D.E. Yeadon

Lecturers

T. Anderson
W.F. Barton
G. Butler
C. Daniels
R. Flinn
D. Gordon
H.F. Ho
S. Jackson

G. Llewellyn
C.D. Lo
M.B. Macken
G. Mitton
J.H. Oxner
B. Pass
D. Thompson
M. Woolnough

First, Second and Third-Year Medicine

Lectures and demonstrations are given in the various system course 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. Electives available for second and third year.

Fourth-Year Medicine

All fourth year students now have a compulsory rotation of one week through diagnostic imaging. 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. One month electives are also available for fourth year.

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*.

Internship

One month electives available for September to June inclusive.

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 the Oncology course 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
A.S. MacDonald
D.A. Murphy
S.T. Norvell
R.H. Yabsley

Associate Professors

A.J. Bodurtha
A.J. Buhr
M.T. Casey
W. Duncan
C.E. Kinley
R.W. Landymore
H. Lau
A.E. Marble
W.D. Miller
J.A. Myrden

Assistant Professors

D. Alexander
C.R.B. Auld
D.C.G. Bethune
G.W. Bate
D.C.S. Brown
C. Bugden
M. Burnstein
C. Del Campo
F.G. Dolan
M. Erdogan
C.H. Graham
W. Henderson
R.B. Higgins
J.C. Hyndman
M.O. Iype

Lecturers
J.D. Amirault
D. Beattie
A.N. Boulos
G.R. Burns
L.W. Caines
J.P. Curry
R.E. Englund

Instructor
D. Lalonde

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 courses 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

D.M. Nicholson
W.S. Parkhill
D.P. Petrie
J.F. Ross
A.M. Sinclair
W.D. Stanish
B.J. Steele
D.V. Willoughby
C.K. You

J.L. Leahey
H. Lau
A.C. MacDonald
A.G.P. McDermott
D.E. Morris
G. Reardon
T.M.F. Roberts
P.D. Roy
H.M. Simms
G.E. Stiles
J.A. Sullivan
J.O. Sundin
A. Tweed
B. Vair

M. Giacomantonio
S. Green
G. Sparkes
W.J. Stephen
S. Stepkowski
K.L. Wilson

basic history taking and physical examination of patients with surgical diseases.

Third-Year Medicine

Students are assigned to the Department for a period of four weeks in Third Year. Their time is divided between patient contact sessions, afternoon seminar sessions, and ward work on a surgical teaching unit. Members of the Department are involved directly teaching the small group patient contact sessions and the seminars. In addition, each member of the Department acts as a preceptor for a single student for eight weeks of the year. The students begin their exposure to longitudinal patient care. They also have a chance to develop manual skills which are necessary in dealing with patients in the senior clerkship and internship.

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, 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, 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. Residents are encouraged to carry out a post training year as a Fellow at this or another centre.

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 two core years of Plastic Surgery are designed for the resident to gain experience in adult and paediatric traumatic and reconstructive 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 two medical meetings during their training outside of 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

Professors

P. Belitsky

F.G. Mack

Associate Professors

R.B. Auld

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

Lecturers

P.G. Wentzell

S.H. Yoon

First and Second-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, the effect these have on normal kidney and urinary tract function and their clinical presentation. Emphasis is also directed toward the approach to investigation and treatment. 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 three weeks beginning in 1987/88 (two weeks in 1986/87) 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

K. Mann (joint appointment, Dean's Office)
I.E. Purkis (major appointment in Anaesthesia)

Administrator

To Be Announced

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.

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.

The Dr. A. Gaum Bursary: This bursary, in memory of Dr. A. Gaum of Sydney, Cape Breton is to be awarded to an entering medical student who has demonstrated financial need, with preference to be given to residents of Cape Breton.

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.

The Dr. J. Donald Hatcher Award: Through funds donated in honour of Dr. J. Donald Hatcher on his retirement as Dean of the Faculty of Medicine, an endowment fund has been established to finance an annual award to the final year undergraduate medical student, who at graduation is considered to have carried out the most meritorious and significant research project during the undergraduate program including summer electives.

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.

The Dr. R.O. Jones Prize in Psychiatry: This prize, in memory of Dr. R.O. Jones is to be awarded to the new graduate who has achieved the highest grade in Psychiatry for the four years in medical school.

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 \$2,000 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 two deserving medical students in first or second year of study.

The Dr. Harry Poulos Prize: This prize is to be awarded to the second year student in the Faculty of Medicine who has the highest standing in Psychiatry.

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 Fourth Year judged by the Department of Urology as having the greatest aptitude and interest 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 and third years.

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 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 award, given every other year, 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 Charles J.W. Hinman Memorial Bursary: A bursary which was established to assist an undergraduate medical student of any year in the Faculty of Medicine who demonstrates satisfactory academic progress and who provides to the Faculty clear evidence of the need for financial assistance.

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

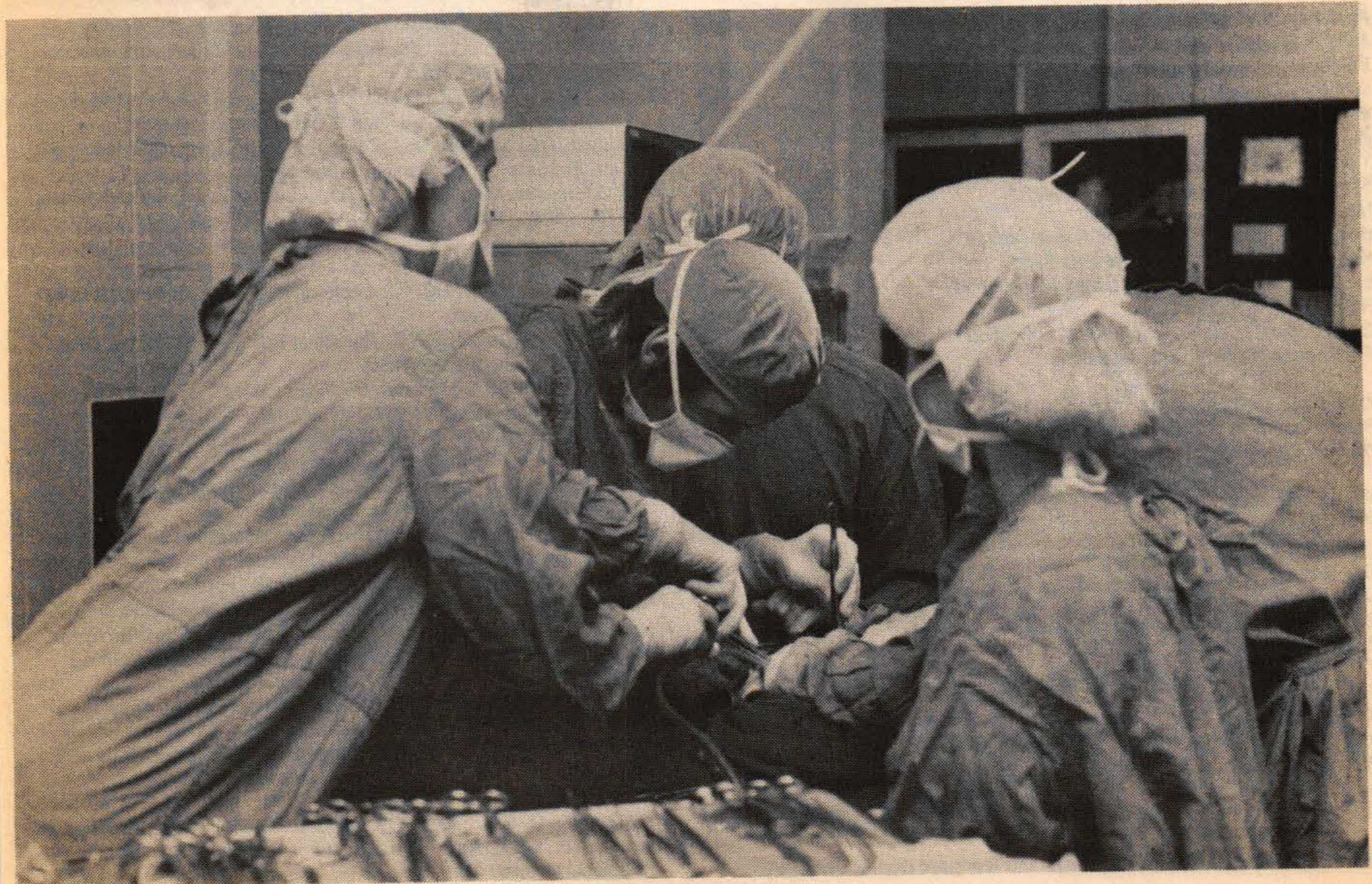
contribute to the advancement of learning or to win distinction in his specialty and could be recommended for appointment to the faculty of a medical school on completion of his training.

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.

Liver Transplant Team



Academic and Administrative Staff 1986-87

Dean

T.J. Murray, MD (Dal), FRCP(C)

Vice-Dean

B.W.D. Badley, MBBS, FRCP (Lond.), FRCP(C)

Associate Deans

Dickson, D.H., BA, MSc, PhD (UWO), Research

Kirby, R.L., MD (Dal), FRCP(C), Curriculum and Evaluation

Mason, W.F., MD (Dal), FRCP(C), Postgraduate Medical Education

Reid, Byron L., MSc, MD (Dal), CCFP, Student Affairs and Admissions

Assistant Dean

R.W. Putnam, MD, CCFP(C), Continuing Medical Education

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, Office Services Supervisor

Sheila Johnson, Curriculum and Electives

Madonna MacDonald, Personnel

Brian MacDougall, Finance and Administration

Karen Mann, Director, Medical Education

Linda Moxsom, Executive Assistant to the Dean

Robert O'Neill, Research

Carol Pooley, Postgraduate Medical Education

Pat Portman, Surveys and Selections

Dalhousie Medical Research Foundation

Peter C. Gordon, MD, Executive Secretary

Rhonda Wessel, Administrative Secretary

Faculty Council 1986-87

P. Belitsky

P.J. Dolphin

D.A. Gass

M.M. Hansell

D.D. Imrie

A.G.P. McDermott

T.F. McDonald

E.V. Rafuse

K.W. Renton

K.B. Ruf

W.F. Schlech

M.T. Ste. Marie

R.T. Tanton

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, Suite 385, 5991 Spring Garden Road

Ahmad, Sirah, MBBS (Peshawar), MRCP(Eng.), FRCP(C), Assistant Professor, Medicine, Suite 212, 5595 Fenwick Street, 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, 2nd Floor, Ambulatory Care Centre

Alexander, D.I., MD (Dal), FRCS(C), Assistant Professor, Surgery (Orthopedics), Room 3162, Ambulatory Care Centre, VG Hospital

Allen, A.C., BS (Haverford), MDCM (McGill), FAAP, Associate Professor, Pediatrics; Associate 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), Assistant Professor, 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

Ex officio: President, Dean, Associate and Assistant Deans, Secretary,

- 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 8025, VG Hospital
- Andrade, E.M., MD (Santo Tomas), FRCS(C), FACOG, FACS, Lecturer, Obstetrics and Gynecology, Saint John Regional Hospital, Saint John, N.B.
- Andrew, John W., MSc (Dal), PhD (Alta.), Assistant Professor, Radiology (Radiotherapy), Radiation Oncology, Radiotherapy Department, Room 2028, Ambulatory Care Centre
- Andrews, D.M., MD (Dal), FRCS(C), Lecturer, Ophthalmology, 6389 Coburg Road, Halifax, N.S.
- Anningson, R.L., MD (Dal), MCFP, Clinical Instructor, Family Medicine, Hampton Medical Centre, Hampton, N.B.
- Aquino, Jose A., BSc, MD (Santo Tomas), FRCP(C), DABNM, FACNM, Associate Professor, Radiology, Div. Nuclear Medicine, Hfx. Infirmary
- Archibald, J.F., BSc, MD (Dal), CCFP Clinical Instructor, Family Medicine, 5521 Duffus Street, Halifax, N.S.
- Armour, J.A., BSc (McG), MD (UWO), PhD (Loyola), Associate Professor, Physiology & Biophysics, 3D, Tupper Building
- Arneaud, J.D., MBBS (Lond.), DCP (Lond.), FRCPATH.(U.K.), Assistant Professor, Pathology, Camp Hill Hospital
- Asuncion, Jacobo R., MDCM (Santo Tomas), Associate Professor, Anatomy, 14B, Tupper Bldg.
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Friday at Four Summer Research Presentation Winners



Left to right: John Embil, third prize; Erica Gilliatt, third prize; Danny Rayson, first prize; Janet MacKinnon, second prize.

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Fourth Year

Abbass, Allan A., New Brunswick
 Abraham, Robert J., Nova Scotia
 Ainamo, Jyri S., Finland
 Anderson, John F., Nova Scotia
 Aquino, Jose, Nova Scotia
 Archambault-Schertzer, Lisa M.J., Quebec
 Barnhill, Thomas A., Nova Scotia
 Barss, Kenneth A., Nova Scotia
 Beed, Stephen, Nova Scotia
 Bergin, Siobhan M., Nova Scotia
 Bethune, Peter N., Nova Scotia
 Bhanot, Raj, Nova Scotia
 Blankstein, Kenneth C., Nova Scotia
 Boyles, Peter T., Nova Scotia
 Cameron, Scott L., Prince Edward Island
 Carmody, Douglas E., Prince Edward Island
 Carson, D. Leigh, New Brunswick
 Chen, Robert P.-C., Nova Scotia
 Cheung, David, New Brunswick
 Chisholm, Kenneth C., Nova Scotia
 Church, Christopher L., Nova Scotia
 Clarke, Barry S., Nova Scotia
 Cohen, David R., New Brunswick
 Colwell, Bruce D.O., New Brunswick
 Connell, Cathy A., Nova Scotia (at Toronto)
 Conrod, Cheryl K., Nova Scotia
 Conrod, Michelle A., Nova Scotia
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 Curry, Stephen A., Nova Scotia
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 Dow, Gordon C.K., New Brunswick
 Dow, Michelle M., Nova Scotia
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 Estey, Eric P., New Brunswick
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 Fleckenstein, Martin H., New Brunswick
 Gill, Blair G., Nova Scotia (at Toronto)
 Gowan, Russell T., New Brunswick
 Hallett, Angela L., New Brunswick
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 Hellenbrand, Wiebke K., Nova Scotia
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 McNeil, Karen A., Nova Scotia
 Mills, Judith A., Nova Scotia
 Mohandas, Rajender N., 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
 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
 Villemare, Pierre A., Nova Scotia
 Wilcox, David, Nova Scotia
 Wilson, J. Scott, Nova Scotia
 Wright, Valena J., Prince Edward Island

Third 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
 Bergin, Patrick C., Nova Scotia
 Boswall, Guy J., Prince Edward Island
 Bower, Neil L., Nova Scotia
 Brown Pamela A., Nova Scotia
 Burk, Jane L., New Brunswick

Buttle, Jeffrey W., Nova Scotia
 Campbell, David C., 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
 Johnson, Suzanne M., Nova Scotia
 Kennedy, Renee S., Nova Scotia
 Kinley, Jacqueline L., Nova Scotia
 Kirby, Sarah, Nova Scotia
 Leckey, J. Robert, New Brunswick
 Lentini, Vittorio, Quebec
 Levine, John O., Nova Scotia
 Lewis, Joanna M., Nova Scotia
 MacCormick, Johnpa 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, 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
 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
 O'Connell, Mary W.E., New Brunswick
 Paterson, Jeffrey W., New Brunswick
 Price, Maura B., New Brunswick
 Prince, Mark E.P., Nova Scotia
 Pringle, Christopher R., New Brunswick
 Rajaraman, Murali M., Nova Scotia
 Rastogi, Nikhil, Ontario
 Raymond, Gregory S., Nova Scotia
 Ring, Melanie S., New Brunswick
 Risk, Paul J., Nova Scotia
 Robertson, R. Scott, Nova Scotia

Robinson, Katherine A., 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
 Weagle, Everett E., Nova Scotia
 White, Margaret J., Prince Edward Island
 Williams, Tammy C., Nova Scotia
 Wilson, Maithili K., New Brunswick
 Yoon, Robert Y.I., Nova Scotia

Second 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
 Belliveau, Adele M., New Brunswick
 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
 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
 Hjelkrem, Michel, Nova Scotia
 Hoffman, Daniel B., Nova Scotia
 Jarrett, Pamela G., New Brunswick
 Jones, Diana C., Nova Scotia

Josey, Michael C., Nova Scotia
 Keating, Ann Marie, Nova Scotia
 Keyes, G. Elizabeth, Nova Scotia
 Kovacs, George J., Nova Scotia
 Lam, Alice, Nova Scotia
 Leckey, Nola P., New Brunswick
 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
 MacGregor, Janice 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
 Murphy, Joanne S., Nova Scotia
 Nagpal, Sudhir K., Nova Scotia
 Patel, Deepen M., New Brunswick
 Petrie, David A., Nova Scotia
 Poulos, R. Kirk, Nova Scotia
 Raghavan, Sai L., 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
 Watson, Mary-Lynn, New Brunswick
 Whelan, Thomas F., New Brunswick
 Winter, Itta M.P., Nova Scotia
 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

First Year

Allen, Stephen M., Nova Scotia
 Anderson, M. Patricia, Nova Scotia
 Andrea, Glenn C., Nova Scotia
 Atkinson, Susan M., New Brunswick

Atwell, Mike M., Nova Scotia
 Badley, Andrew D., Nova Scotia
 Barkhouse, Lane B., Nova Scotia
 Benedek, Linda J., Quebec
 Bennett, Mark S., New Brunswick
 Bent, Stephen R., Nova Scotia
 Brennan, Peter G., Nova Scotia
 Brown, Ian R., Nova Scotia
 Brown, Peggy A., New Brunswick
 Canty, Andrea A., New Brunswick
 Carlos, Deirdre P., Ontario
 Cassidy, Beverley, Nova Scotia
 Chadda, Tina K., Nova Scotia
 Champion, Pauline, Nova Scotia
 Chandra, Michael M., New Brunswick
 Coady, M. Catherine, Ontario
 Dessureault, M. Sophie, Nova Scotia
 Dhar, Shymal C., New Brunswick
 Dhawan, Nishi, Nova Scotia
 Dodick, David W., Nova Scotia
 Dosaj, Seema, Nova Scotia
 Drover, David R., Nova Scotia
 Dykeman, Deanna M., Prince Edward Island
 Edgar, Philip A., Nova Scotia
 Ferguson, Darren B., Nova Scotia
 Fice, Richard K., Nova Scotia
 Gallivan, Glenn G., Nova Scotia
 Gillam, David, Nova Scotia
 Godkin, Timothy A., Nova Scotia
 Goodhew, John E., Nova Scotia
 Grantham, Monica H., Nova Scotia
 Grondin, Sean C., New Brunswick
 Gwyn, Gareth L.B.G., Nova Scotia
 Haddad, Camille, Nova Scotia
 Harvey, Richard D., Nova Scotia
 Hayden, Michael S., New Brunswick
 Henry, Bonnie J.F., Prince Edward Island
 Higgins, Darren S., New Brunswick
 Horton, Natalie L., Nova Scotia
 Horvath, Ferenc V., New Brunswick
 Howells, Steven R., Nova Scotia
 Jackson, Simon D., Nova Scotia
 Kapoor, Anil, Nova Scotia
 Keating, Paula M., New Brunswick
 King, Timothy R., Nova Scotia
 Kumar, R. Tinni, Nova Scotia
 Langley, Richard G.B., Nova Scotia
 Lantz, Christopher J., Prince Edward Island
 LeBlanc, Joanne L., New Brunswick
 Lee, Colleen M.Y.M., New Brunswick
 Lee, George T.W., Nova Scotia
 MacCara, Melanie L., Nova Scotia
 MacEachern, M. Shauna, Nova Scotia
 MacLean, Charles L., Nova Scotia
 MacMillan, J. Stewart, New Brunswick
 MacNeil, J. Peter, Nova Scotia
 Mader, Judith A., Nova Scotia
 McCrossin, Murray J., Nova Scotia
 McKee, Ian B.F., Nova Scotia
 McLeod, Heather A., Nova Scotia
 Mockler, Christine E., New Brunswick
 Muir, Sara A., Nova Scotia
 Nagpal, Sandeep K., Nova Scotia
 Nguyen, Cong-Nghiem, Nova Scotia

Oulton, Lisa J.C., Nova Scotia
Pishori, Sayeeda N., Nova Scotia
Poirier, Angela M., Nova Scotia
Prescott, Christopher R.F., Nova Scotia
Radkey, Andrea L., Nova Scotia
Rathee, Seema, Nova Scotia
Read, Nancy E., Nova Scotia
Ritcey, Susan G., Nova Scotia
Rowe, Donald G., Nova Scotia
Schaefer, Tanya D., New Brunswick
Sharma, Atul, Nova Scotia
Shaw, Karen R., Nova Scotia
Sproul, Cathryn D., New Brunswick
Stairs, Heather J., New Brunswick
Stewart, Marilyn J., Ontario

Ta, Hien M., New Brunswick
Thomson, David M., Nova Scotia
Thorne, Susan F., Nova Scotia
Trus, Michola R., Nova Scotia
Tumilty, Joseph A., Nova Scotia
Wadden, Robert A., Nova Scotia
Wainberg, Michael J., Quebec
Warner, Margaret N., New Brunswick
Watling, Christopher J., Nova Scotia
Weatherhead, Debra J., Nova Scotia
Webster, David M., Nova Scotia
Whalen, Sylvia A., New Brunswick
Worth, Glen G., Nova Scotia
You, John, Nova Scotia



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