MEMORIAL UNIVERSITY OF NEWFOUNDLAND

FACULTY OF MEDICINE

ELECTIVES PROGRAMME

FOR 2nd- AND 4th-YEAR STUDENTS

REGULATIONS AND CATALOGUE OF

OFFERINGS 1972-73

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I. Introduction

This introduction outlines the recommendations and guidelines for the elective programmes in the 2nd and 4th years of the Medical School Curriculum.

1. The elective courses in the 2nd and 4th years are essential credit courses within the Curriculum.

2. The individual choice of topic and location of an elective will be as wide as possible but should relate to medical education.

3. In exceptional circumstances, if a student is considered by the respective Promotions Committee of that particular year to be seriously deficient in any particular field, then an appropriate course for that student may be determined.

4. Students must discuss any proposed project with an advisor who can be chosen from any Faculty member of the Medical School, preferably with experience in the field of the elective. The elective needs approval by that advisor. Following such discussion each student should submit a brief outline of his or her elective to the Electives Committee showing approval by his or her advisor. It is expected that subsequent approval by the Electives Committee will be virtually automatic, but final approval could be referred to Faculty Council in exceptional circumstances.

5. No remuneration may be received by the student if it is in excess of what might be expected in the way of covering travel, maintenance and educational expenses. This will be considered
by the advisor in discussion with the student, and any financial arrangements should be included in the submitted proposal.

6. The advisor may well be in a position to indicate where financial assistance, outside of the University, might be obtained.

7. Students are advised that there is no guarantee of financial support from the Medical School or the University and, if determined to take a particular elective, students will have to be prepared to make their own financial arrangements. Many electives will be available on Campus and in St. John's that would not require additional expenditure by the student, other than would normally be entailed during attendance at the University.

8. The student will be required to make a written report of his elective to his advisor at the end of the elective period.

9. The advisor of the student shall give a written report of the student's performance in his elective to the Chairman of the Electives Committee. In the case of an unsatisfactory report, this may then be considered by the Electives Committee. These reports also will be considered by the Promotions Committee.

10. The student will prepare a written evaluation of his elective, to be submitted to the Electives Committee.

Further clarification of the above recommendations:
1. **Choice of elective**: The Electives Committee has agreed that, though the choice of an elective should be as free as possible, the elective should be related in some way to scientific medical education. Each student would discuss the value of his proposed elective from this point of view with the advisor. If, for example, the advisor did not feel it was a useful project, there is nothing to stop the student from seeking another advisor who would support or approve such a project. The formal approval by the Electives Committee would in almost all cases be automatic, but the Committee wishes to reserve the right for discussion and rejection of a suggested elective which it feels would not be of value. Any such rejected electives could be submitted to Faculty Council on the insistence of the student. These procedures are thought of by this Committee as safeguards in the student's and Medical School's interest, rather than as a means of dictating what may or may not be done.

   Freedom of choice will inevitably be limited by financial considerations, and a number of the above recommendations consider this aspect of the electives. It is worthwhile pointing out again that electives need not involve great expenditure, in fact, it is likely that the majority of electives, particularly in the second year, will be on Campus or in the St. John's area.

2. **Responsibilities of the advisor**: The above recommendations place a heavy responsibility on individual Faculty members who are prepared to act as an advisor for any particular student. It is, for example, important that a student does not find himself in an elective programme where he is exploited, such that the elective has little or no educational
value or the student is merely being made use of as a source of cheap labour. Such criticisms have commonly been made by students on completion of elective programmes. This sort of judgement by an advisor may be difficult, as the elective may be performed with no direct supervision of the advisor but under the direction of people outside this University. Assessment of the student's performance may also present difficulties in such a situation. It is suggested that the advisor also should request some form of report from the person who directly supervises the elective and take this into consideration, together with the student's report, in arriving at his final assessment. As the Elective Courses are regular requirements of the M.U.N. Medical School Curriculum, it is essential that the final assessment remain under the control of this University.

The term "advisor" throughout this catalogue refers to the M.U.N. Faculty member who initially approves the elective; he may or may not subsequently supervise that elective. The term "supervisor" refers to the person with whom the student undertakes his elective when outside this University.

3. The elective periods in both the 2nd- and 4th-year programmes are of eight weeks' duration, the former occurring mid May to mid July. The timing of the 4th-year elective is dependent on the particular rotation that the student is on. Many elective offerings for 4th-year students can be for periods of less than eight weeks so that a student has an option of taking short electives in differing fields.
4. As with other rotations in the 4th year, if a student decides to take one or two weeks of the usual eight-week period as part of his or her four-week vacation, he may do so but this must be shown on the elective application form. If a student uses official vacation time during another rotation for elective work, that period will not be counted as part of the regular elective period for creditation purposes.

5. IN PRESENTING THIS CATALOGUE OF ELECTIVES IT IS HOPED THAT THIS WILL NOT GREATLY REDUCE THE INITIATIVE ON THE PART OF STUDENTS IN PROGRAMMING A STUDY PERIOD OF THEIR OWN MAKING. SUCH PROGRAMMES ARE ENCOURAGED, AND IN SUCH CASES IT IS THE STUDENTS' OWN RESPONSIBILITY TO CONSTRUCT THEM IN CONSULTATION WITH THOSE FACULTY MEMBERS WITH WHOM THEY WISH TO BE INVOLVED AND WHO WOULD BE WILLING TO PARTICIPATE.
II. Procedures for Undertaking and Completing an Elective

1. All electives offered in this catalogue are subject to negotiation by the student with the faculty concerned. Although a particular offering may be shown as available the "year round," it is possible that, owing to vacations or other commitments, certain times may turn out not to be convenient.

2. Following selection of an elective as outlined above, the appropriate elective form should be completed, signed by the Faculty Advisor and returned to the General Office. These forms are available from this office. The completed forms showing the advisor's approval must be returned at least two months prior to the starting date of the elective.

3. These application forms will be reviewed by the Electives Committee, and the students will be informed of their approval.

4. Information is available through the Electives Committee regarding possibilities in relationship to other Canadian Medical Schools, as well as elsewhere, and the student is advised to consult with a member of the Electives Committee before making such applications directly to any such institutions, as in some cases the appropriate information and application forms may be available.

5. On or just prior to completion of the elective, the Electives Committee will request from the advisor or supervisor a report on the student's performance in that elective; this will form part of the student's record, as does performance in other courses.
6. On completion of the course, the student shall also submit a report to the advisor, if that person so wishes, as well as to the Electives Committee. The purpose of the latter is to determine as far as possible the student's evaluation of the elective. Such information as has been obtained in the past has been useful in advising students in subsequent years. These reports will otherwise be treated as confidential. These reports must be received before the final meeting of the Promotions Committee; otherwise delays may occur regarding the forwarding of the year's evaluation to the Registrar's Office.
III. Locations

This map gives a rough indication of where, within the Province of Newfoundland, elective opportunities exist. The majority of these locations are, of course, opportunities for general practice, cottage and community hospital experience.
LABRADOR:
IGA North West River
Happy Valley
★ Community Hospitals
● Cottage Hospitals

PROVINCE OF NEWFOUNDLAND
IV. Elective Offerings

A) ANAESTHESIA

1. Description

A variety of elective experiences in anaesthesia is offered. Such opportunities are available to both 2nd- and 4th-year students. Programme details can be obtained from, or discussed with, the Professor and Chairman of Anaesthesia. Programmes for 4th-year students will emphasize the clinical practice of anaesthesia as well as intensive care. Other opportunities available include research participation in the fields of applied respiratory, cardiovascular and renal physiology and pharmacology.

Duration

2nd-year students - 8 weeks
4th-year students - 4 or 8 weeks

Time of year

Year round

Number of students

The number of students at any one time will be limited and therefore 2nd-year students and 4th-year students whose elective rotation occurs during the May–July period should bear this in mind.

Advisor

All applications for electives in anaesthesia within the University should be made through the office of Dr. Cloid Green, Professor and Chairman of Anaesthesia, M.U.N., T7-11 (Ext. 2106).
B) ANATOMY

1. Students wishing electives in this field should contact Dr. J. D. W. Tomlinson for information following his arrival in the summer of 1972.
C) BIOCHEMISTRY

1. Description

Research experience directed towards the elucidation of the function of complex lipids in membranes will be provided. Such an elective could be continued by the student under the summer-student programme and funds are available for support for this latter programme.

Duration

8 weeks

Time of year

mid May - mid July

Number of students

1 or 2

Advisor

Dr. John Dittmer, M.U.N., T7-26 (Ext. 2887).

2. Arrangements can also be made with members of the Department of Biochemistry, Faculty of Arts and Science, for interested students wishing to gain research experience in other fields of biochemistry.

3. See also elective offerings under Pathology for clinical biochemistry.
D) CELL STRUCTURE AND FUNCTION

1. Description

The cell science group is prepared to offer a number of possible research electives related to 1) normal and abnormal chromosome structure, e.g., chromosomal lipids, aspects of identification, biosynthesis and roles in chromosome damage in carcinogenesis, structure of the centromere and nondisjunction; 2) investigations of acid hydrolase activity in normal and pathological conditions, e.g., storage diseases; 3) cellular aspects of ageing.

As can be seen, a number of these problems relate to pathological conditions and in conjunction with other studies could be suitable for 4th-year students as well as 2nd-year students.

Duration

2nd- and 4th-year students – 8 weeks

Time of year

mid May to December – optimal

Number of students

Not more than 3

Advisor

Dr. P. Gahan, M.U.N., T7-22 (Ext. 3256); Dr. V. Maggi, M.U.N., T7-9 (Ext. 2664).
E) COMMUNITY MEDICINE

1. **Description**

Epidemiology of cardiac disease. The course will involve the methods of sampling, use of standardized questionnaires, analysis of ECG records for epidemiological purposes, principles of diagnostic classification and finally the problems of analysis and presentation of the material collected in epidemiological surveys. This elective will only be available to 2nd-year students.

**Duration**

8 weeks

**Time of year**

mid May - mid July

**Number of students**

1 or 2

**Advisor**

Dr. G. Fodor, M.U.N., T3-20 (Ext. 2826).

2. **Description**

Research and practical experience directed toward the management of patients in domiciliary care. Consideration of social, psychological, and economic impact of early transfer of hospital inpatients to home care will be explored.

**Duration**

Open

**Time of year**

Planned to begin September, 1972 - March, 1974

**Number of students**

1 or 2 at a time

**Advisor**

Dr. Lowell Gerson, M.U.N., T3-21 (Ext. 2826).
3. Description

Health Care Delivery. A number of electives may be taken in this subject, with special reference to the short-term, active-treatment hospital. Emphasis will be placed on the physician's role in improving the utilization and management of such facilities. The elective can be tailored to suit the student's particular area of interest. Possible topics are:

1) medical staff organization - structure and function;
2) patient care quality - measurement and control;
3) forms of utilization of hospital services;
4) hospital statistics - their nature and use;
5) cost control

Place - General Hospital, St. John's

Duration

8 weeks

Time of year

mid May - mid July

Number of students

2

Advisor

Dr. Boyd Suttie, M.U.N., T3-26 (Ext. 2826).

4. Many electives involving community aspects of health care delivery can be found under General Practice and Community Hospitals.
F) DERMATOLOGY

1. Description

A clerkship to provide a comprehensive experience in clinical dermatology as presented in the office and at the Grace and General Hospitals. Such an elective would be combined with a suggested course of reading. If a student wishes to pursue a brief research project of dermatological interest, this could be considered if notification and discussion took place well in advance. The projects suggested could be either of a follow-up nature or related to some basic aspects of mycology. These clinical electives will only be available to 4th-year students.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

1 or 2

Advisor

Dr. J. B. Ross, St. John's Medical Centre, 220 LeMarchant Road, St. John's (579-9672).
G) GENERAL PRACTICE AND COMMUNITY HOSPITALS

There is a wide variety of opportunities available for students wishing elective rotations in general practice. Applications or further information regarding the following electives which give the "advisor" as "General Practice Division of Community Medicine" should be directed to Dr. J. Ross, M.U.N., T3-24 (Ext. 2828). Students from other Canadian universities have already taken advantage of many of the general practice settings outlined here. There is some degree of competition for places, and arrangements should, if possible, be undertaken well in advance of the time when an individual wishes to start his or her elective. The types of general practice could be broadly grouped under the following headings:

1. Description

Urban General Practice. Urban practices in St. John's, Corner Brook and, if individuals desire it, possibly in Grand Falls. A rotation through each of these practices would give some insight into the varying types of general practice, and how they depend upon the size of the community in which the general practitioner operates. Further details regarding the availability of these opportunities and locations can be obtained through the General Practice Division of Community Medicine.

Note

All the general practice opportunities outlined offer considerable exposure to obstetrics, gynecology, and paediatrics.

Duration

4 or 8 weeks (4th-year)
8 weeks (2nd-year)

Time of year

Year round

Number of students

This will be governed by the number of preceptors available

Advisor

General Practice Division of Community Medicine
2. **Description**

Isolated small or rural general practices. There are a limited number of opportunities to spend an elective in a more isolated type of general practice, run either solo or in small groups in the more isolated communities of the island. It is emphasized that opportunities here are more limited in number. They should prove of particular interest to those who wish to have the opportunity to see the effect of distance and isolation on the general practice of medicine, as well as some of the rewards and highlights of this type of work.

**Duration**

4 or 8 weeks (4th-year)
8 weeks (2nd-year)

**Time of year**

Year round

**Number of students**

Dependent on positions available

**Advisor**

General Practice Division of Community Medicine

3. **Description**

Community Hospitals. There is opportunity for clerkships in at least four community hospitals of varying sizes. These hospitals are: Corner Brook, Grand Falls, Carbonear and Gander. In all of these institutions, there will be the added opportunity for those interested in the operative fields of surgery, obstetrics and gynecology, as well as the acute inpatient care of emergencies both medical, surgical and obstetrical.

**Duration**

4 or 8 weeks

**Time of year**

Year round
Number of students

Dependent on positions available

Advisor

General Practice Division of Community Medicine

4. Description

The Cottage Hospital. Opportunities exist right around the island from small isolated hospitals to those in a larger type of community in the Cottage Hospitals which are run and operated by the Department of Health. The exposure and type of practice varies from hospital to hospital a great deal, and those wishing to undertake electives in these areas would be well advised to discuss this with the faculty and advisors prior to making a decision as to where they would prefer to go. Practically all branches of general practice can be covered during an elective through the Cottage Hospital.

Duration

4 to 8 weeks

Time of year

These rotations are best taken between the months of October to May. For months other than these, individual arrangements will have to be made with faculty and the Department of Health to ensure that there is adequate personnel in the Cottage Hospitals to supervise the elective period.

Number of students

This would depend on the number of hospitals willing to undertake the training of students over and above the four-week mandatory period required for the Clinical Clerkship.

Advisor

General Practice Division of Community Medicine

5. Description

I.G.A. Hospital at St. Anthony. This has been affiliated with the Medical School and for years has run its own elective programme for Clinical Clerks. It offers clerkship experience in many rotations, e.g., medicine, surgery, ob/gyn, as well as opportunities in general practice. These latter are best undertaken at some of the more outlying hospitals in Labrador, at Happy Valley and North-west River.
Duration

8 weeks (this could be in two consecutive four-week rotations)

Time of year

Year round (Clerkship programs are arranged well in advance and early notification is essential)

Number of students

Dependent on positions available

Advisor

General Practice Division of Community Medicine
H) GENETICS

1. **Description**

Electives in the field of genetics and microbiology can be arranged in the form of reading projects and seminars or in the field of laboratory projects in microbial genetics. Topics include transmissible drug resistance, environmental mutagenesis, adsorption of viruses to novel hosts and restriction and modification of viral DNA.

**Duration**

8 weeks

**Time of year**

Year round

**Number of students**

1 or 2

**Advisor**

Dr. R. Middleton, M.U.N., T9-8 (Ext. 3211).
1) IMMUNOLOGY

1. Description

A number of electives are available in immunology, both clinical and experimental. Such an elective could involve clinical contact with patients having diseases with immunological aspects as well as laboratory investigations pertinent to those conditions. The main groups of diseases with which these electives will be concerned are immunodeficiency diseases, immunopathy associated with extrinsic antigens, immunopathy associated with reaction to self antigens and diseases of obscure aetiology suspected of having an immunologic basis. Alternatively it is possible to undertake a laboratory study of a more basic sort either within our own research programme or else following an independent path. Second- or 4th-year students are eligible. Further information can be obtained from the advisor.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

1 to 6

Advisor

Dr. W. H. Marshall, M.U.N., T7-6 (Ext. 2659).

2. See also other offerings under Pathology and Medicine.
J) MEDICINE

In order to facilitate coordination, all applications for electives listed here should, unless otherwise stated, be directed to the Professor and Chairman of Medicine, Dr. A. Cox, M.U.N., T3-27 (Ext. 2834). For information, the Faculty members with major input or responsibility for those electives are also included under the "advisor."

1. **General clinical clerkship experience for 4th-year students** will be available for periods of from two to eight weeks in the following fields:

   a) General Medicine  
   b) Cardiology  
   c) Dermatology  
   d) Haematology  
   e) Neurology  
   f) Rheumatology  
   g) Tuberculosis and chest diseases

**Duration**

2, 4, 6 or 8 weeks

**Time of year**

Year round

**Number of students**

1 to 4, dependent on rotation

**Advisor**

2. **Description**

   Haemodynamics of heart disease. An elective in collaboration with the cardiac catheterization laboratory. Involves assessment of patients with heart disease, assisting in catheterization procedures, discussion of data accrued and diagnosis. 2nd- and 4th-year students.

**Duration**

4 to 8 weeks

**Time of year**

Year round
Number of students

1 or 2

Advisor

Drs. A. Cox and G. B. Peckham

3. Description

Clinical cardiology. A clinical clerkship in cardiology involving more specialized cardiac techniques: a) electrocardiography, b) phonocardiography, etc. 2nd- and 4th-year students.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

1 or 2

Advisor

Drs. A. Cox and G. B. Peckham

4. Description

Intracardiac electrocardiography. This would be in conjunction with the elective in clinical cardiology where students will avail themselves of the course in ECG. In conjunction with the elective in electrocardiography, one student could participate in research studies currently progressing in the above field. 2nd- and 4th-year students.

Duration

4 to 8 weeks

Time of year

Year round

Number of students

1 or 2
5. Description

An elective involving the theory, practice and the use of pacemakers in heart disease and the after-care and follow-up of such patients. 2nd- and 4th-year students.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

1

Advisor

Drs. A. Cox and G. B. Peckham

6. Description

Participation in studies in cardiac drug action on membrane potentials of isolated myocardium. Relevance to clinical cardiology will be stressed. 2nd- and 4th-year students.

Duration

8 weeks

Time of year

Year round

Number of students

1

Advisor

Dr. A. Cox
7. **Description**

An elective in haematology. The precise nature of the elective would be dependent on whether this elective is for 2nd- or 4th-year students. In the latter case there would be more clinical experience, but laboratory projects are also possible.

**Duration**

4 or 8 weeks (4th-year)
8 weeks (2nd-year)

**Time of year**

Year round

**Number of students**

2nd-year - 1 or 2
4th-year - 1 or 2

**Advisor**

Dr. G. B. Adams, General Hospital (726-3010, Ext. 309).

8. **Description**

A clinical clerkship with particular reference to rheumatology, involving participation of internist, radiologist, physiotherapists, and team members. Available to 4th-year students only.

**Duration**

4 or 8 weeks

**Time of year**

Year round (not July or August)

**Number of students**

1 or 2

**Advisor**

Dr. J. R. Martin, St. Clare's Mercy Hospital, St. John's (579-8832).
9. **Description**

An elective in rheumatology, with particular reference to fundamental problems in rheumatoid arthritis including laboratory studies on the synovium, or rheumatoid sera in collaboration with immunologists and pathologists. 2nd- and 4th-year students.

**Duration**

8 weeks

**Time of year**

Year round (not July or August)

**Number of students**

1

**Advisor**

Dr. J. R. Martin, St. Clare's Mercy Hospital, St. John's (579-8832).

10. **Description**

A clinical clerkship with particular reference to hyperthyroid disease and the follow-up of treated patients to determine the incidence of hypothyroidism following radio iodine therapy.

**Duration**

4 or 8 weeks

**Time of year**

Year round

**Number of students**

1 or 2

**Advisor**

Dr. D. W. Ingram, General Hospital, St. John's (726-3010, Ext. 361).

11. **Description**

A clinical research elective involving the study of bacteraemia in the General Hospital, precipitating factors, sensitivity of flora to antibiotics, etc.
Number of students

4th-year students

Advisor

Dr. D.W. Ingram, General Hospital, St. John's (726-3010, Ext. 361).

12. Description

A clinical elective in chest diseases. This may particularly emphasize:

a) pulmonary tuberculosis
b) Boeck's Sarcoid
c) extrapulmonary tuberculosis

Advisor

Dr. Duncan Rice

13. See also Community Medicine, e.g., for an elective in epidemiology of cardiac infarction.

14. See also listings under Dermatology and Neurology for specialized electives in these fields of medicine.

15. Elective opportunities in Medicine also exist through the International Grenfell Hospital, St. Anthony, and Community Hospitals. For further information, see General Practice and Community Hospital offerings.
K) **MOLECULAR BIOLOGY**

1. **Description**

   The research emphasis in molecular biology is directed towards an understanding of the growth process. Research experience can be obtained with systems which may be used as models for a study of this process. More specifically investigations related to structure, function and biogenesis of ribosomes are being performed, in addition to studies of nucleic acid metabolism.

**Duration**

8 weeks, with possible extension into the summer months

**Time of year**

mid May to mid July

**Number of students**

1 or 2

**Advisor**

Dr. Bruce H. Sells, M.U.N.
L) NEUROLOGY

1. Description

Clinical clerkships in neurology with special emphasis on one or more of the following disorders may be undertaken:

a) virus infection of C.N.S.
b) Migraine
c) genetic aspects of Huntingdon's chorea

Duration
4 or 8 weeks

Time of year
Year round

Number of students
1 or 2

Advisor
Dr. M. House, General Hospital, St. John's (726-3010).

2. Description

Clinical clerkships with special emphasis on one or more of the following disorders may be undertaken:

a) inter-vertebral disc problems
b) cerebral palsy patients

Duration
4 or 8 weeks

Time of year
Year round

Number of students
1 or 2

Advisor
Dr. A. Cox, M.U.N., T3-27 (Ext. 2834) (Supervisor, Dr. N. Lush).
M) OBSTETRICS AND GYNECOLOGY

All applications for electives should be sent, unless otherwise stated, to the office of Dr. G. H. Flight, Professor and Chairman of Obstetrics and Gynecology, T3-33 (Ext. 2838). The Faculty member whose name is listed will be the major person responsible for that elective.

1. Description

General clinical elective. Fourth-year students who wish to have additional experience in clinical work may join a team in the following Hospitals:

- The General Hospital (Gynecology)
- Grace General Hospital (Obstetrics and Gynecology)
- St. Clare's Mercy Hospital (Obstetrics and Gynecology)

Experience would include outpatient and inpatient involvement.

Duration

4 to 8 weeks

Time of year

Year round

Number of students

Maximum of 3 students at a time

Advisor

2. Description

Infertility. Experience available in an infertility clinic to study the problems encountered in infertility practice, including endocrinological management.

Duration

4 weeks

Time of year

Year round

Number of students

1
3. Description

Rh Programme. Opportunity available to see management of a disease by a team on a provincial basis. Excellent opportunity to grasp the impact of a disease on a population and to see how statistics are compiled and results obtained. Second-year students would benefit from the statistical aspect and 4th-year students from the clinical management of cases as well as laboratory experience.

Duration

4 to 8 weeks

Time of year

Year round

Number of students

Maximum of 2 at a time

Advisor

Dr. C. R. Avery

4. Description

High risk pregnancy. Opportunity available to see the application of identification of the high risk mother and baby, and the impact on perinatal mortality of such a programme. The student can participate in the laboratory procedures of estrogen determination in the urine of pregnant women. Second-year students would be involved in data collection and 4th-year students with clinical management as well.

Duration

4 to 8 weeks

Time of year

Year round

Number of students

Maximum of 2 at a time

Advisor

Dr. T. C. Hogan
5. Description

Early cancer detection and cancer management. Opportunity available for students to participate in a province-wide study on the impact of screening for cervical cancer. This study is on-going and is now in its fourth year. Information is available on over 75,000 individual Pap smears. Clinical involvement on an inpatient service dealing with women with pelvic cancer is available. A team approach with Radiotherapy is utilized.

Duration

4 to 8 weeks

Time of year

Year round

Number of students

Maximum of 2 at a time

Advisor

Dr. J. T. Dunne

6. Significant exposure to obstetrics and gynecology is also possible through the electives offered under General Practice and Community Hospitals.
Applications for or enquiries regarding electives offered in paediatrics should be directed unless otherwise stated to the Professor and Chairman of Paediatrics, Dr. J. Darte, M.U.N., T3-34 (Ext. 2838). The Faculty member with a major responsibility for any of these electives is also noted under "advisor." The subspecialty electives offered also include attendance at special clinics and experience in advanced diagnostic techniques. In some instances opportunities will be offered for in-depth study of a single disease or group of diseases or participation in clinical trials of new drugs dependent on the supervisor and student.

1. Description

A clinical clerkship in paediatric medicine. An extension of the experiences that will be gained during the regular paediatric rotation, including both ward and outpatient work. Second-year students will also be accepted for a more introductory programme.

Duration

4 or 8 weeks
8 weeks for 2nd-year students

Time of year

Year round

Number of students

1 or 2

Advisor

2. Description

An elective in paediatric cardiology

Duration

4 or 8 weeks
8 weeks for 2nd-year students

Time of year

Year round
3. Description

An elective in paediatric neurology

Duration

4 or 8 weeks
8 weeks for 2nd-year students

Time of year

Year round

Number of students

1 or 2

Advisor

Dr. C. Way

4. Description

An elective in paediatric endocrinology and metabolism

Duration

4 or 8 weeks
8 weeks for 2nd-year students

Time of year

Year round

Number of students

1 or 2

Advisor

Dr. J. C. Jacob
5. Description

An elective in paediatric haematology

Duration

4 or 8 weeks
8 weeks for 2nd-year students

Time of year

Year round

Advisor

Dr. J. Darte

6. See also opportunities in paediatric surgery under Surgery offerings.

7. As indicated under General Practice and Community Hospital offerings. Paediatric experience can also be gained from those programmes and that offered by the International Grenfell Hospital, St. Anthony.
0) PATHOLOGY

1. Description

Laboratory medicine. An elective involving rotation through the main divisions of laboratory medicine, e.g., anatomical pathology, chemical pathology, haematology and bacteriology. During this time a student will not only gain a certain amount of experience in the various diagnostic procedures used but will also work in close conjunction with the pathologists in interpretation and application in terms of clinical management. This would include attendance and participation in clinico-pathological conferences, emergency procedures such as blood transfusion and frozen section and attendance in the autopsy room. 4th-year students only.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

1 to 4

Advisor

Dr. M. Lewis, Professor and Chairman of Pathology, T9-16 (Ext. 3421).

2. Description

Arrangements may be made for a limited number of students in the following fields:

a) Makerere Medical School, Uganda, East Africa. An elective involving experience in either the Pathology Department or the various clinical departments or the Lymphoma Treatment Centre.

b) An elective in the Pathology Department of the Westminster Hospital, London.

4th-year students only.

Duration

8 weeks
Students interested in either of these programmes should make early enquiries and application in order to ensure their arrangement.

**Number of students**

1 or 2

**Advisor**

Dr. M. Lewis, Professor and Chairman of Pathology, T9-16 (Ext. 3421).

3. **Description**

An elective in experimental pathology particularly related to cancer immunology. During this time experience will be gained in clinical and laboratory aspects of human immunological aspects of cancer with particular reference to tissue culture of malignant cells, fluorescent microscopy and immunocytochemistry as well as participation in experimental animal procedures. 2nd- and 4th-year students.

**Duration**

8 weeks

**Time of year**

Year round

**Number of students**

1 or 2

**Advisor**

Dr. M. Lewis, Professor and Chairman of Pathology, T9-16 (Ext. 3421).

4. **Description**

Arrangements can be made for 2nd- or 4th-year students to undertake an elective in pathology at the I.G.A. Hospital, St. Anthony.

**Duration**

8 weeks
Time of year

Subject to negotiation

Number of students

1

Advisor

Dr. M. Lewis, Professor and Chairman of Pathology, T9-16 (Ext. 3421).
1. Description

A research elective involving experiments on the trophic effects of nerve on skeletal muscle. This programme is only available to 2nd-year students.

Duration
8 weeks

Time of year
Mid May - Mid July

Number of students
1 or 2

Advisor
Dr. E. Vos, M.U.N., T3-4 (Ext. 2654).

2. Description

Research experience in the fields of respiratory, cardiovascular and exercise physiology and thermoregulation can be provided following discussion with the advisor. 2nd-year students.

Duration
8 weeks

Time of year
Mid May - Mid July

Number of students
1 or 2

Advisor
Dr. J. W. Snellen, M.U.N., T9-7 (Ext. 3313).

3. Description

Research projects are offered in gastroenterology for both 2nd-year and 4th-year students as electives. Such electives fall in the areas of a) basic research on the pathogenesis and patho-
physiology of inflammatory gastric or bowel disease, or drug effects on the physiology of the gastrointestinal tract, b) clinical investigation of selected alimentary tract diseases, and c) epidemiologic studies relating to digestive diseases in Newfoundland and Labrador.

Duration

4 or 8 weeks, with preference for 8 weeks

Time of year

Mid May – Mid July (2nd-year students)
All year except August and September (4th-year students)

Number of students

Maximum at any one time, 2

Advisor

Dr. Carl J. Pfeiffer, and associated clinical staff, M.U.N., T9-13 (Ext. 2147).

4. Description

A research elective studying the pathophysiology of renal disease in animals, using radiological techniques in association with standard renal clearance measurements and surgery.

Duration

8 weeks

Time of year

Year round

Number of students

1

Advisor

Dr. J. Hodson, M.U.N., T7-15 (Ext. 2666).

5. Description

A research elective involving the development of ultrasound techniques in measuring blood flow in animals, with particular reference to renal blood flow. 2nd-year students only.
Duration
8 weeks

Time of year
Mid May - Mid July

Number of students
1

Advisor
Dr. J. Hodson, M.U.N., T7-15 (Ext. 2666).
Q) **PSYCHIATRY**

All applications for electives should be sent unless otherwise stated to Dr. G. Hopkinson, T3-12 (Ext. 3301).

1. **Description**

   Clinical clerkships in any of the General Hospital psychiatric units. Available to 2nd- and 4th-year students.

   **Duration**
   
   4 or 8 weeks

   **Time of year**
   
   Year round

   **Number of students**
   
   Subject to application

   **Advisor**

2. **Description**

   Clinical clerkships in the Hospital for Mental and Nervous Diseases. Special areas of interest include the Boarding-out Service or Forensic Psychiatry. Available to 2nd- and 4th-year students.

   **Duration**
   
   4 or 8 weeks

   **Time of year**
   
   Year round

   **Number of students**
   
   Subject to application

   **Advisor**
3. Description

Clinical clerkships in child psychiatry. Available to 2nd- and 4th-year students.

Duration

8 weeks

Time of year

Year round

Number of students

Subject to application

Advisor

4. Description

Electives in child psychiatry can also be arranged for 2nd- and 4th-year students with special emphasis in any of the following areas:

a) Emotional aspects of paediatrics.
b) Psychological reactions to chronic handicaps in children. 
c) Organization of mental health services for children (in conjunction with Dr. Pottle).

Duration

8 weeks

Time of year

Year round

Number of students

1 to 3

Advisor

Dr. B. Boothroyd Brooks, Janeway Hospital (722-5100, Ext. 218).

5. Description

A follow-up of the psychiatric sequence following refusal or consent for therapeutic abortion. 2nd- or 4th-year students.
6. Description

Psychiatric epidemiology. An elective involving research experience directed towards the formulation and carrying out of simple epidemiological projects using hospital case records. Retrospective studies can be undertaken, and prospective studies which may be continued under the summer-student programme can be considered. Special attention will be given to the role of social and cultural factors in psychiatric illnesses. Some fieldwork (interviewing patients for follow-up) might be included in the projects.

Duration

8 weeks

Time of year

Year round (but not available during August, 1972)

Number of students

1

Advisor

Dr. H. M. Sampath, Office (726-6657); M.U.N., T3-13 (Ext. 3300).
1. Description

Clinical clerkships in radiology are available at the (1) General Hospital, (2) Janeway Children's Hospital, (3) St. Clare's Hospital, and (4) the Grace Hospital. These clerkships will be under the supervision of participating radiologists, and the student will assist in the various radiological procedures undertaken, as well as participate in the discussions between radiologists and other clinicians, and he will have access to patients being investigated. Second- and 4th-year students will be considered.

Duration

4 or 8 weeks
8 weeks for 2nd-year students

Time of year

Year round

Number of students

1 or 2

Advisor

Dr. J. Hodson, Professor and Chairman of Radiology, General Hospital, St. John's (726-3010).

2. See also offering No. 4 under Physiology.
1. Description

A number of electives are offered for 2nd-year students, in particular, an elective in experimental surgery (1 or 2 students) and an elective in paediatric surgery involving a study of congenital surgical problems and their correction (1 student). Other individual projects can be discussed with the Professor and Chairman of Surgery.

Duration
8 weeks

Time of year
Mid May - Mid July

Number of students
See above

Advisor
Dr. J. B. Littlefield, M.U.N., T3-30 (Ext. 2627).

2. Description

A course in elective surgery involving instruction in operating techniques in the experimental surgical laboratory and hospital operating theatre.

Duration
4 or 8 weeks

Time of year
Year round

Number of students
1 to 4

Advisor
Dr. J. B. Littlefield, M.U.N., T3-30 (Ext. 2627).
3. Description

Clinical clerkships are available in general surgery as well as in the surgical subspecialties such as urology, neurosurgery, orthopaedics, ophthalmology, and E.N.T. Electives in these fields could be on a rotating basis of periods of two or four weeks or in one subspecialty for eight weeks.

Duration

See above

Time of year

Year round

Number of students

To be determined by demand

Advisor

Dr. J. B. Littlefield, M.U.N., T3-30 (Ext. 2627).

4. Description

An elective in paediatric surgery. Further information obtainable from the Professor and Chairman of Surgery.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

To be determined by demand

Advisor

Dr. J. B. Littlefield, M.U.N., T3-30 (Ext. 2627).

5. Description

A clinical clerkship in the Emergency Department and I.C.U.

Duration

4 or 8 weeks
6. Description

A clinical clerkship in general surgery including cardiothoracic and plastic surgery.

Duration

4 or 8 weeks

Time of year

Year round

Number of students

Dependent on demand

Advisor

Dr. J. B. Littlefield, M.U.N., T3-30 (Ext. 2627).

7. Surgical clinical clerkships can also be arranged at the I.G.A. Hospital, St. Anthony. See under General Practice and Community Hospital offerings.
1. Description

A programme in preparing clinical or basic science material for presentation in any field of study. Various topics will be suggested for preparation in the form of short communications, clinico-pathological conferences, lectures, seminars, case demonstrations, demonstrations of experimental situations, etc., dependent on the field of study chosen. These exercises will then be presented and discussed by the participating Faculty.

In topics or fields in which the participants feel additional expertise is necessary the cooperation of an additional Faculty member will be obtained.

Students should not merely consider this course from the point of view of acquiring skills in communication or teaching, as such exercises will be of great value in terms of understanding subject matter and appreciating the relevance and importance of the various aspects of the subject matter. Further information and examples of the type of programme that might be suggested can be obtained from the advisor or participants in this course.

Duration

4 weeks

For 2nd-year students it might be possible for such a four-week programme to follow another elective if both periods were in the same field of study. The programme could then involve the previous Faculty advisor.

Time of year

Year round

Number of students

1 or 2

Advisor

Dr. B. W. Payton, M.U.N., T7-23 (Ext. 2896).

Participants: Drs. Cox, M. Lewis, R. Mowbray, C. Mellor, S. Peterson
The offerings presented in this catalogue are primarily intended for students at the Medical School of Memorial University, however, applications for some of them, from students of other Schools, will also be considered. It must be borne in mind that, at the present stage of development of Memorial's Medical School, the number of such students that can be considered is limited. Any such interested students are advised first to enquire about their own School's Elective Committee, which may already have had contact with this School.

Present arrangements in certain provinces, e.g., Ontario, Quebec, and Newfoundland, make it possible for final-year clinical clerks to spend their elective periods outside their own university and province with their bursary or other financial allowance continued during this time. This arrangement has made it easier for us to accommodate a number of students from universities in these provinces.

Any correspondence regarding such possibilities should not be sent to the Chairman of Memorial's Elective Committee but should be directed to the Office of the Dean, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland.