COLLEGE OF MEDICINE

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R. L. Randell, Associate Professor of Biology G. Searcy, Professor of Veterinary Pathology Professor of Dentistry, T.B.A.

*Denotes non-members of faculty.

GENERAL INFORMATION

The College of Medicine was fully accredited in 1957 by the Association of Canadian Medical Colleges, the Association of American Medical Colleges and the Council on Medical Education and Hospitals of the American Medical Association. Connected with the medical building is the Royal University Hospital of approximately 420 beds with departments directed by the professional heads of the corresponding university departments. Clinical teaching is carried out also in St. Paul's Hospital and City Hospital in Saskatoon, and at the Regina General Hospital, and Pasqua Hospital.

Candidates for the degree of Doctor of Medicine may apply for admission to the college after a minimum of two years following Grade 12 in the pre-medicine program in the College of Arts and Science. Admission procedures are outlined below.

For medical students who wish to undertake additional study in one of the medical sciences, a program is offered leading to the degree of Bachelor of Science in Medicine - B.Sc.(Med.).

Programs in Physical Therapy are provided in the College of Medicine. Consult the School of Physical Therapy section of the Calendar for details. No degree program in Occupational Therapy is offered at present at this university, but those contemplating such professional training may take Pre-Occupational Therapy courses in the College of Arts and Science. For details, see Pre-Professional Programs in the College of Arts and Science section of the Calendar

ADMISSION REQUIREMENTS

RESIDENCY AND CITIZENSHIP SASKATCHEWAN RESIDENTS

Qualified applicants must be Canadian citizens or landed immigrants at the time of application.

Applicants normally must have resided in Saskatchewan for three years prior to September 1 of the year in which admission is being sought. However, applicants who have left the province but have previously

lived in Saskatchewan for an accumulated period of 15 years (permanent residency) will be treated as residents. Applicants who have previously lived in Saskatchewan for an accumulated period of less than 15 years and do not qualify under the three vear condition will receive credit of one year toward the three-year requirement for every five years residency in the province.

An exception to the three-year ruling may be made for members of the Armed Forces of Canada or RCMP or for an applicant whose spouse, parent, or guardian has moved to Saskatchewan for reasons of employment or training. In these cases, the applicant must have resided in Saskatchewan for at least 12 consecutive months directly preceding the time of application.

In support of claim to qualify as a resident of Saskatchewan (as noted above), the Admissions Committee will take into account:

 Place of residence of parents, guardian or breadwinner;

· Reasons for any break in continuity of residence, which will include attendance at an out-of-province educational institution, summer employment where applicable, and any other reason deemed to be relevant by the Committee;

• Filing of income tax return as a resident of Saskatchewan (where applicable)Driver's License, Hospitalization;

Note: Residency will date from when Driver's License and Hospitalization have been changed.

· Residency in the Northwest, Nunavut or Yukon Territories.

OUT-OF PROVINCE RESIDENTS

Up to five positions of a total of 60 may be offered to out of province applicants.

Applicants must be Canadian citizens or landed immigrants and have lived in Canada at least three years at the time of application.

An overall average of 70% is required for the prerequisite courses

An overall average of 80% for the two best full under-graduate years is required for out-of-province students. The two full years must be completed at the time of application. Those invited for an interview usually have an average of 87% or higher.

All applicants must meet the academic requirements outlined in this document. No exceptions are made.

All the prerequisites, or their equivalents, must be completed by April of the year in which the application is made. The prerequisite courses are as listed in the University of Saskatchewan Calendar.

Ontario applicants - Grade 13 or OAC English is not considered the equivalent of ENG 110.6. Introductory university level English is required.

Transcripts* - Copies of transcripts from all universities attended other than Saskatchewan universities must be attached to the application. In addition, official transcripts must be forwarded by the issuing

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university directly to the College of Medicine. Transcripts in a language other than English must have an official translation attached.

Calendar* - A calendar from the university attended (if non-Canadian) *must*

be included with the application, if in the English language.

Applicants who have attended

universities outside of Saskatchewan* are encouraged to check with the Office of the Registrar before applying to determine whether credit will be granted for the courses taken. In cases where interpretation of marks of a student with at least two years of study from an international university is not possible, the individual will be required to complete one full year of study at an approved university with at least an 85% or the required two full years.

Deadline for out-of-province applicants is December 1 of the year prior to admission. Please note this differs from the Saskatchewan residents' deadline of January 15.

* Saskatchewan residents who have attended universities outside of Saskatchewan must also follow these rules.

ACADEMIC REQUIREMENTS

The academic requirements for the College of Medicine are as follows:

Admission to the Arts and Science premedical program, i.e. graduation from Grade 12 in Saskatchewan with credit for English A30 and B30, Mathematics B30 and C30 (or Algebra 30 and Geometry-Trigonometry 30), Biology 30, Chemistry 30 and Physics 30. A minimum admission average on the required subjects is 65%.

Prerequisites. Students must have completed a number of required courses in the College of Arts and Science before entering the College of Medicine. If students intend to complete a prerequisite course at Spring Session of the year of admission, they must notify the Admissions Office at the time of application. At the University of Saskatchewan, the required courses are:

BIOCH 200.3 and 211.3

BIOL 110.6 (general) CHEM 112.3 (general) CHEM 250.3 (organic) ENG 110.6 or any two of ENG 111.3, 112.3, 113.3, 114.3

PHYS 111.6 (general) A full course equivalent (6 credit units) in

the social sciences or humanities

The Standard First Aid Certificate must be obtained by June 15 of the year of entry. If accepted, a copy of this certificate is required. This certificate must remain current throughout the entire first year.

Students may schedule their prerequisite courses (listed above) as they wish but they must attain an overall academic average of 70% in them to be considered for admission. If the average is below 70%, students may improve their average in the prerequisite courses by taking *higher level* courses in the same subject areas.

The Medical College Admission Test (MCAT). All applicants are required to write the MCAT prior to the application deadline. The MCAT is offered twice a year, April and August. A minimum score of 8 will be required in the sciences and verbal reasoning sections, and N in writing skills; however, one 7 will be accepted.

Scores must be available by the application deadline. The best MCAT scores obtained at any one sitting in the last five years will be used. (Earliest acceptable scores to apply for admission in 2003, will be April 1998).

Registration packages should be picked up from the Dean's Office by early February.

Average for Admission. To establish an academic average for consideration by the Admissions Committee, applicants must complete two full undergraduate years of study, taken between September and April. Sixty credit units (30 per year) at the University of Regina, is considered a full load. Applicants must attain a minimum of 78% in the two-year average to be considered for admission (80% or higher for out of province). Courses taken at Spring Session are not considered in the two-year average.

Applicants may improve their average for admission by taking an additional full year(s) of university study. However, all programs must lead to a degree or, where students already have (an) undergraduate degree(s), to a certificate** or to a degree in another discipline. It is not acceptable for students who have spent several years at university to take largely 100 level courses to improve their average, nor is it acceptable for students to repeat a course they have already taken and use the new grade for competitive purposes. If in doubt, students are advised to consult the Admissions Office.

**See the College of Arts and Science section of the *Calendar*, under *Advanced and Honours Certificates*.

All applicants must fulfill all the academic requirements. No exceptions are made.

Saskatchewan residents who have taken university education outside of Saskatchewan must follow the rules set out in *Out-of Province Residents* regarding transcripts (see * in previous section).

During the university year, an applicant may file an application for admission to Medicine assuming he/she will satisfactorily complete the April examinations of the year for which application is made.

Graduate Students. In considering graduate students who have completed a graduate degree, their average will be based either on their total academic record in their undergraduate program plus their formal courses in their graduate program or their two best full undergraduate years, whichever works to their advantage.

Special Cases. The Admissions Committee may consider up to two special case entrants per year (Saskatchewan residents only). An example would be a single parent whose family responsibilities prevent them from attending university full time. Such applicants must still meet all other academic requirements.

Deferrals. Applicants admitted to first year Medicine may be allowed to defer entry for up to two years. This is normally granted only to postgraduate students to allow them to complete a Masters or Ph.D. degree. Request for deferral must be submitted at the time of acceptance (Saskatchewan residents only). Two deferrals may be granted each year.

CRITERIA FOR SELECTION

Criteria for selection are academic performance and personal qualities.

Academic performance is based on applicants' two best full undergraduate years of study given that performance has been reasonably consistent or has improved. At the University of Saskatchewan, five full course equivalents taken between September and April are considered to be one full academic year

Personal qualities are assessed

primarily by interview. Three applicants will be interviewed for each position, chosen on the basis of their academic performance in their best full year. However, for the final decision in June, the average of the best two full years will be used. Interviews are approximately 45 minutes and occur during a weekend in March. The applicant is interviewed by a team of four; a medical doctor (who may be a faculty member), a full-time faculty member, a current medical student, a non-medical lay person from the community at large. The interview team is not given any information about the candidate prior to the interview. Interview scores (24 possible points) are calculated by totalling individual interviewers' assessments (scale 1-6).

Three letters of reference are also considered.

The weighting of academic performance to personal qualities is approximately 3:1.

Candidates for Medicine are selected by the Admissions Committee of the College of Medicine on the basis of rank order of competitiveness and consideration of information pertinent to individual applicants. The Committee treats applicants anonymously, i.e. Committee members are provided appropriate information about applicants but without their names.

All candidates are notified of their acceptance by the end of June.

COUNSELLING OF APPLICANTS TO Medical School

The Admission's Office is available to assist all applicants who seek counselling regarding admission to Medicine. It is policy, however, not to instruct applicants as to a specific course of action they should follow but to provide the information needed for them to make their own choice with respect to the alternatives available. The following points require special attention:

• No official of the College of Medicine can guarantee the admission of any applicant. Admission is determined by the

Admissions Committee on the basis of an annual competition.

• All applicants are advised to supplement any personal inquiries with written inquiries so that an official response can be made. It is only these written responses which will be considered as evidence of the official advice given.

 Applicants are encouraged to discuss their plans to apply for entrance to Medicine with those who can usefully advise them, but they should be aware that second and third hand information about admissions policies is often incorrect and should not be relied upon.

Students should select their courses with a goal in mind. There should be largely upper level courses in their second year and subsequent years, not simply "easy courses" in order to achieve a good mark.

Since many applicants are not accepted into the College of Medicine, students should choose courses in their pre-medical program that could lead to a satisfactory alternative career.

CHANCES FOR ADMISSION

The number of positions available in first year Medicine is limited to 60. Approximately 100 applications (inprovince) are received, as well as approximately 200 applications from out of province. *Realistically, to be competitive academically, an overall two-year average of over 80% (87% for out of province applicants) is required.*

APPLICANTS WITH DISABILITIES AND ADMISSION TO MEDICINE

While a disability should not preclude an applicant from consideration for admission, the disability must not prevent the applicant from communicating with patients and colleagues, from making observations and analyzing clinical data, and from making the medical judgements expected of a physician who has completed the educational program leading to the M.D. degree at this university.

APPLICATION FORMS

Application forms may be obtained from the Admissions Secretary, College of Medicine, in July of the year preceding entry or from the web site at http://www.usask.ca/medicine

The application deadline for Saskatchewan residents is January 15 of the year of entry. There is a non-refundable application fee of \$40. For out-of-province applicants, the application deadline is December 1 of the year preceding entry and the non-refundable application fee is \$75. Enquiries concerning admissions should be directed to the Admissions Secretary, College of Medicine, (306)966-8554 or e-mail med.admissions@usask.ca

ADMISSION OF ABORIGINAL STUDENTS

(Saskatchewan Residents only) Three first year spaces are reserved for persons of Canadian Aboriginal descent. Applicants will require an average of 78% or higher assessed on their two best 30-credit unit pre-medicine years and at least 16/24 on the interview. Applicants of Aboriginal descent will compete within this category, not against the entire applicant pool. Applicants should identify themselves on the application for admission.

REGISTRATION

Registration materials will be sent to eligible students in July. Those wishing to register in person after receipt of the registration materials may do so in the Dean's Office, A204 Health Sciences Building up to the first day of classes.

Late registrations will be permitted only by prior special ruling, following the presentation of acceptable reasons. See the General Information section of the *Calendar* for regulations governing late registrations.

ATTENDANCE

Students are expected to attend all lectures, laboratory periods, seminars and patient contacts regularly. Interactive seminars and patient contact is an unique educational experience, irreplaceable from alternative sources. Students who are persistently tardy or absent from lectures or who neglect academic work, will be subject to disciplinary action and may be excluded from final examinations.

Students must have approval to undertake extramural clerkships and only academically competent students should engage in this work.

DOCTOR OF MEDICINE PROGRAM

Students entering the College of Medicine will take a four-year medical program which is divided into four phases. This follows the two-year pre-medical program detailed under Admission in this section of the *Calendar*.

FIRST MEDICAL YEAR - PHASE A

(33 weeks)

ANAT 232 (Cell Biology and Histology) ANAT 234 (Introductory Neuroanatomy) ANAT 235 (Gross Anatomy and Embryology) BIOCH 213 (Medical Biochemistry and Nutrition) INTDL 201 (CPR) INTDL 202 (The History of Medicine) INTDL 202 (The History of Medicine) INTDL 204 (Life Cycle and Humanities) INTDL 205 (Professional Skills A) MICRO 204 (Immunology) PHSIO 202 (Physiology)

SECOND MEDICAL YEAR - PHASE B

(33 weeks) INTDL 303 (Interdepartmental Clinical Systems I) INTDL 304 (Clinical Sciences I) MICRO 303 (Microbiology and Infectious Disease I) PATH 301 (General Pathology) PATH 302 (Systemic Pathology) PEDS 302 (Human Genetics) PHCOL 301 (Pharmacology)

THIRD MEDICAL YEAR - PHASE C Term One Only

(15 weeks)

CH&EP 401 (Community Health and Epidemiology) INTDL 403 (Interdepartmental Clinical Systems II) INTDL 404 (Clinical Sciences II) INTDL 405 (Interdepartmental Clinical Linking Courses) MICRO 403 (Microbiology and Infectious Diseases II)

THIRD AND FOURTH MEDICAL YEAR - Phase D

Term Two and Fourth Medical Year

(67 week Undergraduate Junior Rotating Internship)

ANES 501 (Anesthesiology) FAMED 503 (Family Medicine/Emergency) INTDL 502 (Elective) INTDL 503 (Post clerkship Selective) MED 505 (Medicine/Neurosciences) OB&GY 501 (Obstetrics and Gynecology) PEDS 501 (Pediatrics) PSIAT 501 (Psychiatry) SURG 501 (Surgery)

Before students can undertake this final year, they must be registered with the College of Physicians and Surgeons and have a Certificate of Registration (Undergraduate) on the Educational Register of the College of Physicians and Surgeons of Saskatchewan.

IMPORTANT DATES

August 22 - August 23 Orientation for first year

August 26

Classes begin for first, second and third year

December 6

Last day of classes for first, second and third year

December 9 - December 13

Examinations for first, second and third year **January 2**

Classes begin for third year

January 6

Classes begin for first and second years February 17 - 21

Mid-Term break for first and second year

April 25 Last day of classes for final year

May 2 Last day of classes for first year*

May 16

Last day of classes for second year

May 5 - May 16*

Examinations for first year

May 20 - May 30

Examinations for second year May 20 - May 30

Community Experience for first year *Examinations for first year will end on May 16, followed by a compulsory Community experience.

PROMOTION AND GRADUATION

Promotion is dependent on the student's achieving a grade of at least 50% in every course of that phase and obtaining a weighted average of at least 60% for the phase. The student must also achieve a "pass" mark in the elective.

A student who fails to achieve promotion will be required to:

 Pass a supplemental examination(s) or do the remedial work and pass a supplemental examination(s) if he/she is unsatisfactory in any course(s) equivalent to 6 credit units or less;

• Repeat the phase or to discontinue if he/she is unsatisfactory in more than 6 credit units.

A student may be required to discontinue the study of Medicine for non-academic reasons such as health.

The M.D. degree with Distinction will be awarded to the student who obtains a weighted average of at least 75% in two of the first three medical phases, a weighted average of at least 75% in the final medical phase, and a cumulative weighted average of at least 75% over the four phases of the medical program.

The M.D. degree with Great Distinction will be awarded to the student who obtains a weighted average of at least 80% in two of the first three medical phases, a weighted average of at least 75% in the final medical phase, and a cumulative weighted average of at least 80% over the entire medical program.

See the General Information section of the *Calendar* for a full explanation of the grading system and the literal descriptors associated with each grade category.

REQUIREMENTS FOR LICENSE TO PRACTICE

Students are reminded that a university degree in medicine does not in itself confer the right to practice medicine. This is granted only by the licensing body of the province in which one intends to practice. In Saskatchewan, the licensing body is the College of Physicians and Surgeons of Saskatchewan. Students in medicine should enrol prior to their first year with the Registrar, 211 4th Ave. S., Saskatoon SK S7K 2L4.

The examinations of the Medical Council of Canada, all or in part, will be held separately from the university examinations at the end of the final year. On the completion of a minimum of two years of postgraduate training the student is then entitled to apply for registration in any province of Canada for license to practice on complying with provincial regulations including the payment of license fee. Licensure requirements vary from province to province.

Note: Licensure requirements in Canada are changing rapidly. Further information can be obtained from the College of Physicians and Surgeons.

For postgraduate training to meet the above requirements, graduates of Medicine of the University of Saskatchewan are required to take postgraduate training in a Canadian hospital approved for training by the Canadian Medical Association. If a non-Canadian Medical Association. If a non-Canadian hospital is selected, it must provide satisfactory postgraduate training and must be affiliated with an approved medical school (see current Directory, Council of Teaching Hospitals, published by the Association of American Medical Colleges).

MICROSCOPES AND INSTRUMENTS

Each student on registering for the first medical year must provide a microscope approved by the Professor of Anatomy.

In the first medical year, the following instruments will be required:

Stethoscope, Blood Pressure Cuff, Diagnostic Set (Otoscope and Ophthalmoscope), Reflex Hammer and Tuning Fork (128C). Department heads concerned will advise on types or models preferred.

BACHELOR OF SCIENCE IN MEDICINE PROGRAM

This program is designed to provide medical students with the opportunity to study an aspect of medical sciences in depth and to gain some experience in research.

Requirements for the degree can be met *either:*

• by spending one academic year in study and research, or

• by arranging a program of two consecutive summers of research and study.

ADMISSION

Any student admitted to the College of Medicine for study toward the M.D. degree who has a cumulative weighted average of 70% or higher is qualified to apply.

Admission to the program will depend on approval of a program of study by the B.Sc.(Med.) Advisory Committee.

Submissions regarding research proposals are approved before students are recruited to the program. Prospective students may work with faculty members (supervisors) in the preparation of the research proposal.

Projects approved by the B.Sc.(Med.) Advisory Committee will be posted and students will be invited to make application with the research supervisor by mid-January.

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Formal admission to the program will be granted to successful candidates and students must register and pay fees before June of that year.

REQUIREMENTS FOR THE DEGREE

Satisfactory completion of the program entails:

• Completion of all requirements for the M.D. degree;

• A cumulative weighted average of 70% in Phases A-C of the undergraduate medical curriculum;

• Satisfactory completion of the required courses (CH&EP 390.3, 392.3, INTDL 390.6, 391.3, 392.6, 393.3 and 395.6) and of the research component of the B.Sc. (Med.) program.

The M.D. and B.Sc.(Med.) degrees will be awarded simultaneously. Further information may be obtained from the Dean of Medicine's office.

FEES, PAYMENT OF FEES, CANCELLATIONS AND REFUNDS, WITHDRAWALS AND COURSE CHANGES

See the General Information section of the *Calendar.*

COURSES

College of Medicine courses are listed in the Courses section of the *Calendar* under the following subject headings: Anaesthesia (ANAES) Anatomy and Cell Biology (ANAT) Biochemistry (BIOCH) Community Health & Epidemiology (CH&EP) Family Medicine (FAMED) Interdepartmental Courses (INTDL) Microbiology and Immunology (MICRO) Obstetrics, Gynecology and Reproductive Sciences (OB&GY) Pathology (PATH) Pediatircs (PEDS) Pharmacology (PHCOL) Physiology (PHSIO) Surgery (SURG)

POSTGRADUATE MEDICAL TRAINING PROGRAMS

The following postgraduate training programs approved by the Royal College of Physicians and Surgeons of Canada and the College of Family Physicians of Canada are offered. Anaesthesia Community Health and Epidemiology Family Medicine Family Medicine Urban Family Medicine Rural Family Medicine/Emergency Medicine Internal Medicine General Cardiology Respiratory Rheumatology Medical Imaging Neurology Obstetrics and Gynecology Ophthalmology Pathology General Pediatrics Pediatrics Neonatal/Perinatal Medicine Pediatric Neurology Psychiatry Physical Medicine and Rehabilitation Surgery

General Neurosurgery Orthopedic

For details, consult departmental offices or the Dean's Office, A204 Health Sciences Building.

CONTINUING MEDICAL EDUCATION AND PROFESSIONAL DEVELOPMENT

The primary function of Continuing Medical Education and Professional Development is to assist physicians in Saskatchewan in their efforts to provide the highest possible quality of patient care.

The major objective is to improve health and reduce illness for people who receive medical care in Saskatchewan. Activities include major conferences in Saskatoon and Regina for family physicians and specialists in urban and rural areas.

• District Medical Society educational programs for physicians in the rural and urban areas.

• Enhancement and remedial education programs for physicians who self-identify medical practice concerns or those who are referred by the Saskatchewan Physicians' Practice Enhancement Program.

• The provision of audio-visual and print resources upon request.

• Consultation services to individual physicians or groups of physicians in the development of more effective continuing medical education and professional development programs.

 The evaluation of C.M.E.P.D. programs and provision of feedback of the results to the individuals or groups involved in the planning. Encouragement of physicians to become involved daily in self-directed learning experiences.

• The fostering of a good attitude towards lifelong learning among undergraduate and graduate students in the College of Medicine.

The program is carried on in full cooperation with the College of Physicians and Surgeons, Saskatchewan Medical Association, College of Family Physicians, The Royal College of Physicians and Surgeons, Saskatchewan Health, and individual members of the profession.

Many regional and hospital conferences are offered jointly with the College of Nursing. These programs are supported by the Heart and Stroke Foundation of Saskatchewan, Saskatchewan Cancer Agency; and Saskatchewan Health.

LIBRARY

The Health Sciences Library is the primary resource centre for the Colleges of Medicine, Dentistry, Nursing, and the School of Physical Therapy. It is the second largest branch library of seven locations that form the University of Saskatchewan Library system. The library's collection consists of over 37,000 books, 850 current journal subscriptions and over 200 electronic health care journals.

The Health Sciences Library has 15 workstations providing access to networked databases and to web based information resources. Additionally, there are 4 photocopiers within the library, maintained by the USSU, for student use. The library has two special collections. The Baltzan Medical Canadiana Collection is held within the library and the Brodie History of Medicine Collection is in storage and available for paging.