Faculty of Medicine and Dentistry

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UNIVERSITY OF ALBERTA

DR ED PETERS (foreground)
1998 and 1999 Best Lecturer Award

DR CHRIS BLEACKLEY (background)
2001 Howard Hughes Medical Institute International Research Scholar
Faculty Vision

Leaders in education, research and service, making essential contributions to health.

Faculty Mission Statement

The Faculty of Medicine and Dentistry is dedicated to the improvement of health through scholarship and leadership in our educational programs, in fundamental and applied research and in the prevention and treatment of illness. Central to our mission is the preparation of professionals to provide the highest quality of health care to the people of Alberta and beyond, and the advancement of knowledge and its application through research. All of these activities are being undertaken with Capital Health and other partners. In order to fulfill our responsibilities to society, the Faculty is committed to excellence in our programs as measured by national or international standards.

Values Statement

Scholarship: We seek and disseminate new knowledge for the benefit of society.

Respect and Caring: We respect and care for people.

Integrity: We maintain the highest levels of integrity.

Excellence: We strive for excellence in all our endeavors.

Community/Teamwork: We work individually and collectively to achieve common Faculty goals.

Stewardship of Resources: We ensure utilization of resources.

Faculty Overview

In striving to realize its vision and to fulfill its mission, the Faculty contributes to the academic environment of the University of Alberta, City of Edmonton, and Province of Alberta. The interdependence of teaching, research, and delivery of health care not only necessitates the scholastic endeavours described herein, but also generates a major economic impact on the communities encompassed. A few facts:

- Number of Departments 20
- Number of Divisions 11
- Number of Research Groups 17
- Number of Academic Staff 428
- Number of Clinical Staff 1043
- Number of Support Staff 983
- Numbers of Students and Residents
  - Medical Students 424
  - Medical Residents 468
  - Dental Students 132
  - Dental Residents 3
  - Dental Hygiene Students 123
  - Medical Laboratory Science Students 49
  - Graduate Students: 224

In subsequent sections of this document, the departments, divisions and members of staff are listed along with summaries of the various programs offered. The Faculty warmly welcomes feedback and questions and can be contacted as follows:

Faculty of Medicine and Dentistry
2J2.00 WC Mackenzie Health Sciences Centre
University of Alberta
Edmonton, Alberta, Canada T6G 2R7
(780) 492-6621; FAX (780) 492-7303
www.med.ualberta.ca
91   The Professors

91.1  Teaching and Scholarship

The Faculty of Medicine and Dentistry offers a variety of educational opportunities including the MD program, the DDS program, Dental Hygiene, Medical Laboratory Science, Honours undergraduate programs (in conjunction with the Faculty of Science), and graduate (MSc and PhD) programs (in conjunction with the Faculty of Graduate Studies and Research).

The Faculty prides itself in its high-quality clinical care, research, and teaching. In each of the past several years, the graduating MD class has ranked as one of the very top of the 16 Canadian Medical Schools in the national LMCC examinations. Faculty members have received coveted national 3M Teaching Awards and PhD graduates of the Faculty have won the Governor General’s Gold Medal at Convocation.

In research, the Faculty attracted more than $82 million in outside funding for 1999–2000, almost one-half of the total for the University of Alberta. Faculty researchers hold a number of prestigious honours including Fellows of the Royal Society (London and Canada), MRC Distinguished Scientist, University Professor, Kaplan Laureates, Howard Hughes researchers, and MRC Councillor. The Faculty is home to one of the National Centres of Excellence and members of faculty are collaborators in other Centres.

This Faculty contributes in a major way to the reputation of this University as one of Canada’s very finest.

Members of the Faculty

Note: An asterisk (*) by the name indicates a secondary appointment within the Faculty. (This is not used for Deans and Directors.)

Office of the Dean
Dean DJ Tyrell
Chief Operating Officer A Bhatti
Associate Deans RA Bear O’Deeseman PDavis GElkner PA Gordon GM Raborn JH Weiner
Assistant Deans P Man M Moreau MC Palmer VYu
Faculty Service Officers VChumeneck DN Gupta

Administrative Officers
BKCslinger Ctwanicka

Anesthesiology and Pain Medicine
Chair and Professor BA Finegan
Professors *AS Ganachan BFFinucane
Associate Professor RA Keamy

Assistants
S Rashaq B Tei

Clinical Professor R Gregg

D Cave PG  Ghar MR Cohen BP Delbecq A Doyle JM Dupuis KA Fascenda VFord GDamez MGregginetQuinn AS Guest SGupta D Hardy R Haugen LY Huang MS Jacka JV Jensen DT Jolly MJ Kinoahan NKlaassen JP Kollier BKopelkin BLazar IA Macdonald K Martinez P Matthey DMAcHeron JA Mair KA Munn SNathan QNoble ANunes PO’Connor SA Olsen BZPetriw SJ Reid HReine ZS Saleh SScott CTang BP Unger DH Winie PDWignlce

Clinical Lecturers
MH Berovich C Cave JRCharlton AFitzmaurice JC Hazdill EM EMan LNadeidry OJ Schneider

Biochemistry
Chair and Professor BD Sylkes

Associate Professors
LB Agpilon *R Godbout GBHilmes BD Lemire NSchultz

Assistant Professors
*JC Carey JNMGlover *SB Hales AMacMillan CFernandez-Patrun LScharng LSpracopoulos

D Stuart KWison

Professors Emeriti WHBridger JS Cotter RS Hodges CKay NB Madans VPatkauskas LB Smillie

Faculty Service Officers RM Liner WT Wotoliko

Administrative Officer GM Redmond

Biomedical Engineering
Chair and Professor PS Allen
Professors *RV Rajotte RE Snyder *JF Wollardt

Assistant Professors CBaurel *JG Emery MA Gerassini KEjames VK Muhahwar AH Wilman

Professors Emeriti DFennia DJGriffiths TH Overton

Adjunct Professors DN Benet QA Backhouse MG Faulkner *RH Hooper ZI Koles HUlulag

Cell Biology
Chair and Professor RA Rachubinski
Professors RB Campernot *WG Galli TLKukoff PMelancon *DG Pilgrim BB Stevenson

Associate Professors THobman MPasadar ESPihaya RWozniak

Assistant Professors JA Alton L Berthiaume *RHLehner Z Wang

Professor Emeritus RS Smith

Dentistry
Associate Dean and Chair GW Raborn

Professors FM Eggert HB Bradway KH Gibb KE Glover LVKline PWMajor WTMcGee NC Milos E Peters

JLF Primkaat HM Polukoski PD Schuller DA Scott PG Scott JA Theodore

Associate Professors EEdgington ELam DJ Pehowich JH Pochynok HK Tan

Assistant Professors SCobb GP  Cynagly

Clinical Professors HK Compton AEastwood BGitzel RDHarvey EA Krause DPettigrew CReveli EH Ritchie ECRobinson HLSamuels JA Scott BN  Tunis JW  Worsnak CCYU DCTYU

Clinical Associate Professors BS Bennett NDijkstra CLChan SCompton RCroutze CK  Fialko-Eshenko SG  Sarantse D  Gotaas IKuc RLabahn SLash VPLee JLockau CMCaldonald DJ Mac Dougall EMcIntyre HM  Mcleod LMoore BNebbe BR Neumann SK Patterson PLPierce WPredrich WM  Primrose EE Robinson PSchulze WM  Smith TR  Stevenson MT Taculis NL Tegart NTribe WGT  Weinberger KWKwong GZerich

Clinical Assistant Professors KBapoo-Mohamed DHBedard LBost AH Brouwer EBurgess CGCaruk RCox JC  Couture MDiab JDoberstein WDobrovolsky ERammer ER  Easton DElbak PGainer GGrzybikas K Habib
### Associate Professors
- PA Smith
- RB Stein
- D Treit
- D Wahlsten
- J Yang

### Assistant Professors
- V Camacho
- CT Dickson
- *J* Greer
- DW Wong-Wylie

### Assistant Professors
- DW Ali
- D Bennett
- KM Chan
- C Hsu
- KM Hegadoren
- BKV Maraj
- J Mikesz
- *P* Nguyen
- CP Putman
- KG Todd
- *A* Toe
- *P* Tse
- GF Westbury
- EP Zehr

### Clinical Professors
- P Flor-Henry
- *K*C Petruk

### Adjunct Professors
- AR Dobbs
- *J*C Lind

### Physical Medicine and Rehabilitation Medicine

**Director**
N Ashworth

**Clinical Professor**
LA Belamy
M Watt

**Assistant Professors**
M Chan
L Satkunam

**Associate Clinical Professors**
RS Burnham
JB Guthrie
JM Nagy
L Trachsel
E Veszpremi
*M* Watt

**Assistant Clinical Professors**
N DiPerri
G Gray
S Gray
E Sampson
C Tuchak
J Townsend

**Clinical Lecturer**
J Hebert

**Adjunct Professors**
*B*J Andrews
*RB* Stein

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### Studies in Medical Education

**Director and Professor**
*DA* Cock

**Associate Director and Professor**
*SL* Aaron

**Professor**
ENA Skakun

**Educational Associates**
*B*J Silver (Family Medicine)
*VA* Capstick (Obstetrics and Gynecology)

---

### Research Associates
- DA Cook

### Additional Members of Faculty Council

**President and Vice-Chair**
R Fraser, PhD

**Representatives**
J Buckingham (Medical Librarian)
RA Burns (Alberta Medical Association)
HI Campbell (Alberta Dental Association)
J P Chang (Faculty of Science)
A Cook (Dean, Faculty of Rehabilitation Medicine)
ALA Fields (Cross Cancer Institute)
J Goldberg (Faculty of Science)
A Gordon (Provincial Mental Health Board)
M Mahon (Dean, Faculty of Physical Education & Recreation)
IR Ohauser (College of Physicians and Surgeons of Alberta)
G Gray (Dean, Faculty of Nursing)
PM Pasutto (Dean, Faculty of Pharmacy and Pharmaceutical Sciences)
S Paul (Community Care & Public Health, CHA)
G Predy (Medical Officer of Health, CHA)
*B*J Silver (Registrar, U of A)
The Faculty of Medicine of the University of Alberta was established in 1913 and until 1922 conducted a three-year undergraduate medical program in the basic medical sciences.

In 1922, a full program of clinical instruction began, and the first Doctor of Medicine (MD) degrees were awarded in 1925.

Medical education was instituted at the University of Alberta in 1917 in the School of Dentistry under the Faculty of Medicine. The first full degree program was offered in 1923, and the first class graduated in 1927. The School became the Faculty of Dentistry in 1944. Dental Auxiliary training was instituted in 1961. In 1962, the School of Dental Hygiene came into being. A program of graduate studies was formally approved in 1962.

In 1998, the Faculty of Dentistry was merged with the Faculty of Medicine to become the Faculty of Medicine and Dentistry.

All students attending the University of Alberta shall use Universal Precautions for blood, body fluids, and tissues at all times within the educational setting to lessen their risk of acquiring or transmitting bloodborne infection from/to another person. These precautions entail the avoidance of direct contact with the blood, blood products, tissues and other body fluids of another person.

The Faculty of Medicine and Dentistry conducts the following programs:

### Medical Programs

1. A fully accredited four-year program leading to the degree of Doctor of Medicine. At least two pre-medical years at university are required before admission to this program.

2. A program whereby students in the MD program who fulfil specified requirements in research may receive the degree of Doctor of Medicine "with Special Training in Research."

3. A four-year program leading to the degree of Bachelor of Science in Medical Laboratory Science, which may be entered after a preprofessional year.

4. A program whereby students in Medical Laboratory Science who fulfil specified requirements in research may receive the degree of Bachelor of Science in Medical Laboratory Science "with Special Training in Research."

5. A program whereby students in the MD Program who fulfil specified requirements may be awarded the Bachelor of Medical Science degree at the conclusion of their second year in the MD program.

6. At the graduate level, programs leading to the degree of Master of Science or Doctor of Philosophy. Also programs leading to the degree of Master of Public Health (formerly, Master of Health Service Administration) or the Diploma in Health Service Administration.

7. Programs leading to accreditation by the College of Family Physicians of Canada.

8. Programs leading to eligibility for specialist qualification, in all clinical specialties, by the Royal College of Physicians and Surgeons of Canada are offered in cooperation with affiliated hospitals.


See §94 for details of programs of study.

### Dental Programs

1. An accredited four-year program leading to the degree of Doctor of Dental Surgery (DDS). At least two pre-dental years at university are required before admission to this program.

2. A Bachelor of Medical Science degree that students registered in the DDS program may apply for after successfully completing the first two years of the DDS program.

3. An accredited three-year program leading to the Diploma in Dental Hygiene or a four-year program awarding a Bachelor of Science (Dental Hygiene Specialization).

4. MSc and PhD degrees in Medical Sciences (Oral Health Sciences).

5. An MSc Degree and Certificate in Orthodontics.

6. The Department of Dentistry sponsors a wide variety of continuing dental education opportunities throughout the year through the Continuing Dental Education program. Courses are offered both on campus and occasionally at other sites within the province. Annually, thousands of dentists, dental hygienists, dental assistants and others participate in the many lecture, hands-on clinical and laboratory type courses that are offered. Local and visiting speakers of national and international reputation provide continuing education of a high quality.

### Department of Dentistry Objectives

1. To provide an academic and intellectual milieu in a university setting that facilitates all aspects of education and research in dentistry and allied health and scientific fields by
   a. attracting, selecting, and motivating the most qualified academic and non-academic staff; and
   b. creating a university environment that emphasizes the quality of life for staff and students.

2. To contribute to the advancement of knowledge in dentistry and allied fields by doing research, publishing research papers, and communicating and interacting with
   a. other health sciences and other disciplines of the University to promote comprehensive health care;
   b. the dental profession, dental auxiliaries, auxiliary-training programs, and the community to promote oral health; and
   c. basic and clinical science organizations and granting agencies to promote disciplinary and interdisciplinary research.

3. To graduate competent undergraduate dentistry students, dental hygienists and graduate and postgraduate students by
   a. attracting, selecting, and then motivating the most suitable and well-qualified students who have the ability to acquire the education and training for a professional and/or academic career;
   b. maintaining an undergraduate dentistry curriculum that integrates basic medical and dental sciences, behavior and social sciences, dental clinical sciences, community and preventive dentistry, hospital dentistry, and practice management; incorporates recent concepts, materials, techniques, advances, and research in all areas; and reflects the existing and projected provincial, national, and international oral health needs;
   c. maintaining a dental hygiene curriculum that produces students who will complement the present and future dental care delivery system;
   d. maintaining an education program that allows for the smooth transition from graduation to practice and ensures that students are competent to practise efficiently and responsibly; and
   e. graduating students who are competent to assume roles of leadership and service in their professions and communities.

4. To provide the opportunity and stimulus for continued learning through postgraduate, graduate, research, and continuing education programs.

5. To provide efficient and quality dental treatment for the community that emphasizes and recognizes patient needs.

### Affiliated Hospitals and Institutions

#### 92.2.1 Affiliated Hospitals

The Faculty of Medicine and Dentistry, University of Alberta, conducts its undergraduate, postgraduate and continuing clinical education activities through affiliation agreements and/or special arrangements with appropriate hospital authorities, both within and beyond the Capital Health Region of Alberta. The Faculty is located in the Walter C Mackenzie Health Sciences Centre (which includes the University of Alberta Hospitals), the Heritage Medical Research Centre, the Medical Sciences, Clinical Sciences, and Dentistry Pharmacy Centre Buildings.

#### 92.2.2 Family Medicine Rural Teaching Sites

The Department of Family Medicine has an educational relationship with 14 of the 17 Regional Health Authorities. Currently, over 33 rural communities participate in undergraduate and postgraduate education initiatives.

#### 92.2.3 Northern Health Services Program

Through an affiliation with the Inuvik Health Board, a regular rotation of clinical faculty, residents, and elective students to Inuvik areas (Mackenzie Area Ambulatory Program) is maintained.
92.2.4 University of Alberta Family Medicine Centres

Ambulatory care facilities, specifically designed for undergraduate and graduate education in family practice, are located at the Grey Nuns and Misericordia Community Hospitals, the Northeast Community Health Centre and the Royal Alexandra Hospital. These “Family Medicine Centres” allow medical and other health science students to participate in providing comprehensive and continuing health care to a representative section of the community under the supervision of members of the Department of Family Medicine.

92.2.5 Alberta Primary Care Research Unit—University of Alberta Branch

The Alberta Primary Care Research Unit (APCRU) is composed of two complementary branches within the Faculties of Medicine (and Dentistry), one at the University of Alberta, the other at the University of Calgary. The APCRU is the coordinating infrastructure, organized through the respective Departments of Family Medicine, to foster a multidisciplinary and coordinated approach to the study of primary medical care research in Alberta. One main focus of the APCRU is community practice-based research. This is done through the ongoing relationship between the APCRU and the Alberta Family Practice Research Network (AFPRN) of the College of Family Physicians of Canada (Alberta Chapter). The APCRU research themes include (1) clinical prevention, (2) education/information dissemination, and (3) health services use and outcomes.

92.2.6 University of Alberta Surgical-Medical Research Institute

The University of Alberta Surgical-Medical Research Institute (SMRI) is a multi-user facility that provides laboratory space and equipment for research activities of research investigators, fellows, and graduate students in the Faculty of Medicine and Dentistry in the field of experimental surgery and medicine. Facilities include rooms suitable for operating on large and small animals, a biochemistry and histology laboratory, and the Medicine/Dentistry Electron Microscopy Unit, located in the Institute. In addition to research activities, the SMRI provides major teaching facilities for surgical residents in training and for core training (surgical skills) for postgraduate Year 1, postgraduate Year 2, graduate, and summer students. The surgical facilities are also used for running continuing medical education courses for medical and paramedical practitioners to study the latest innovations in medicine. The Institute offers four postgraduate courses, three of which are prerequisites for the MSc and PhD degrees in experimental surgery.

92.2.7 University of Alberta Satellite Dental Clinics

The Satellite Clinics in northern Alberta provide an educational experience for senior Dentistry and Dental Hygiene students while delivering care to patients in remote areas. This program is supported by Alberta Health and Wellness.

92.3 Registration and Licensing

92.3.1 DDS Degree

The Department of Dentistry of the University is accredited by the Canadian Dental Association.

Regulations regarding the practice of dentistry in any other province in Canada may be obtained by writing to the dental registrar of that province. Contact information is available from the Canadian Dental Association (www.cda-adc.ca).

Senior students of dental programs approved by the Commission for Dental Accreditation of Canada must write the National Dental Examinining Board examinations during their final year. Successful completion of these examinations is required for licensure.

Grades are also eligible to write licencing examinations in most of the states in the United States and the examinations of the National Board of Dental Examiners of the American Dental Association.

The Doctor of Dental Surgery (DDS) degree and the Doctor of Dental Medicine (DMD) degree (granted by some Canadian and United States universities) are equivalent degrees.

92.3.2 Dental Hygiene Diploma/Bachelor of Science (Dental Hygiene Specialization)

A diploma/Bachelor of Science (Dental Hygiene Specialization) degree does not, in itself, confer the right to practise. A dental hygienist desiring to practise dental hygiene in Canada should consult the appropriate provincial licencing body. Contact information is available from the Canadian Dental Hygienists Association (www.cdha.ca).

92.3.3 Registration to Practise

The Registrar of the Alberta Dental Association may refuse to issue a license and/or registration certificate to practise dentistry to any applicant with a criminal record. Likewise, the Alberta Dental Hygienists Association may refuse to issue a license and/or registration certificate to practise dental hygiene to any applicant with a criminal record.

92.4 Finance

92.4.1 DDS Degree

Tuition fees for the program can be found in §22.2. No student is allowed to purchase a kit without permission of the Department of Dentistry.

Note: The figures are based on 2001/2002; figures are subject to change without notice.

<table>
<thead>
<tr>
<th>Additional Costs for DDS Students</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>1,200</td>
<td>1,100</td>
</tr>
<tr>
<td>Dental Kits</td>
<td>10,000</td>
<td>9,500</td>
</tr>
<tr>
<td>Dental Students Association</td>
<td>70</td>
<td>170</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Year 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Books</td>
<td>600</td>
<td>400</td>
</tr>
<tr>
<td>Dental Kits</td>
<td>2,900</td>
<td>2,200</td>
</tr>
<tr>
<td>Dental Students Association</td>
<td>170</td>
<td>170</td>
</tr>
<tr>
<td>National Dental Board Exam</td>
<td>N/A</td>
<td>1,450</td>
</tr>
</tbody>
</table>

92.4.2 Dental Hygiene Diploma

Tuition fees for the program can be found in §22.2.

Note: The figures are based on 2001/2002; figures are subject to change without notice.

<table>
<thead>
<tr>
<th>Additional Costs for DH Students</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>500</td>
<td>900</td>
<td>600</td>
</tr>
<tr>
<td>Dental Hygiene Kits</td>
<td>N/A</td>
<td>4,600</td>
<td>2,415</td>
</tr>
<tr>
<td>Membership Fees</td>
<td>N/A</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>Professional Exam Fee</td>
<td>N/A</td>
<td>N/A</td>
<td>500</td>
</tr>
</tbody>
</table>

Uniforms: The student is expected to have a lab coat, uniform, white clinic shoes and safety glasses. The lab coat, uniform, shoes, and safety glasses are purchased under the direction of the program.

Field Experiences: Students are responsible for their own transportation to and from field experiences scheduled in the Edmonton area.

92.4.3 Bachelor of Science (Dental Hygiene Specialization)

Tuition fees for the program can be found in §22.2.

Note: The figures are based on 2001/2002; figures are subject to change without notice.

<table>
<thead>
<tr>
<th>Additional Costs for Students</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>900</td>
</tr>
<tr>
<td>Dental Hygiene Kits</td>
<td>N/A</td>
</tr>
<tr>
<td>Membership Fees</td>
<td>100</td>
</tr>
</tbody>
</table>

92.4.4 Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program

(See §92.4.3)
92.4.5 Advanced Placement Program (DDS)

Tuition fees for the program can be found in §22.2.

Note: The figures are based on 2001/2002; figures are subject to change without notice.

<table>
<thead>
<tr>
<th>Additional Costs for Students</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>800</td>
<td>600</td>
</tr>
<tr>
<td>Dental Kits</td>
<td>10,800</td>
<td>2,200</td>
</tr>
<tr>
<td>Membership Fees</td>
<td>170</td>
<td>170</td>
</tr>
</tbody>
</table>

92.4.6 MD Degree

Information on fees charged to students in the MD and MSc programs is given in §22. In addition, medical students spend approximately $2,000 each year for books, supplies and instruments. Fourth-year medical students pay an examination fee of approximately $700 to the Medical Council of Canada in January of their final year.

All medical students are encouraged to take the following courses: First Aid, Cardiopulmonary Resuscitation, and Advanced Cardiac Life Support. Students are responsible for the corresponding fees.

Some remuneration is presently given to final year MD students by Alberta Health, Government of Alberta.

Details of scholarships and other financial assistance for medical students are available in the Awards section of this Calendar or by contacting the MD Program Office, Admissions and Undergraduate Medical Education, 2-45 Medical Sciences Building; phone (780) 492-6350.

92.5 Medical and Dental Society Memberships

The Dental Alumni Association is an organization of all graduates in Dentistry from the University of Alberta. The Association takes an active interest in the Department of Dentistry of the Faculty of Medicine and Dentistry and participates in a number of awards to dental students. In addition, the Association provides limited funds to finance specific projects in the Department and honors convocating students and graduates of the silver anniversary class.

The Dental Alumni Association is an organization of all graduates in Dentistry from the University of Alberta. The Association takes an active interest in the Department of Dentistry of the Faculty of Medicine and Dentistry and participates in a number of awards to dental students. In addition, the Association provides limited funds to finance specific projects in the Department and honors convocating students and graduates of the silver anniversary class.

93 Admission and Academic Regulations

93.1 Admission

See §13 and 14 for general admission requirements to the University. See §15 for specific admission information for the DDS, Dental Hygiene, MD, and BSc in Medical Laboratory Science programs.

93.1.1 Combined Program for the Degrees of MD and PhD

Highly qualified students wanting to pursue a career of teaching and research in basic medical science or clinical medicine may enrol in a program of approximately six to eight years leading to the acquisition of both an MD and a PhD degree.

Students in the first year of the MD program may apply to the Combined Program. If acceptable to the appropriate department, to the Faculty of Medicine and Dentistry, and to the Faculty of Graduate Studies and Research, the student is admitted to the PhD program. Normally, on completion of two years of the MD program, the student registers in the PhD program. The time needed to complete the requirements for the PhD depends on the applicant’s previous training and the nature of the research. On completion of the PhD program, the student re-enters the Faculty of Medicine and Dentistry and completes the requirements for the MD degree.

Students interested in such a program may obtain further information from the Office of Research, Faculty of Medicine and Dentistry, 232.11 Walter C Mackenzie Health Sciences Centre.

93.2 Academic Standing and Graduation

93.2.1 DDS Degree

The program leading to the DDS degree is conducted in four years (1, 2, 3 and 4) under the direction of the Faculty committees (see §94.2).

(1) No credit will be granted for courses completed in preprofessional years and no course exemptions will be allowed.

(2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87 GFC Policy Manual).

(3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student’s progress and determining a student’s grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.

(4) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.

(5) On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.

(6) Reexaminations

a. Students are allowed reexamination privileges only in courses that are failed.
b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.

c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.

d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.

 Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.

f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.

g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.

h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.

i. Reexaminations in all years of the DDS program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty Academic Standing and Promotion Committee.

j. Over the program reexamination privileges will not exceed five reexaminations. In DDS 509, 529, 545, 565 all components must be successfully completed and any reexaminations in a component of these courses will compose one of the five reexamination privileges.

7. Academic Standing: Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty Academic Standing and Promotion Committee.

a. No student may proceed to any subsequent year of the DDS program and will be required to withdraw unless they have passed all courses for that academic year.

b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.

8. Regulations Concerning Repetition of a Year because of Academic Failure

a. No student will be allowed to repeat any year of the DDS program with the exception of fourth year students who may be granted the status of "Special Category Repeating Student." See below for details.

b. Special Category Repeating Student: a student who fails to meet some requirements in the final-year of the program may be designated a Special Category repeating student. In order to be considered as a Special Category repeating student in fourth-year Dentistry, the student must:

   i) have clinical deficiencies in no more than two clinical disciplines and have been advised that the deficiency could be corrected within one term of instruction; and

   ii) have successfully completed all written examinations in the DDS program.

Further information regarding the Special Category repeating student may be obtained from the Department Office. Students repeating the final year are not eligible for awards.

9. Voluntary Withdrawal: A student wanting to temporarily withdraw from the DDS program is required to make written application to the Supervisor of the DDS program. The reasons for withdrawal and the intended period of withdrawal. Readmission to the DDS program following voluntary withdrawal is based on the following:

a. A review, by the Faculty, of the reasons for withdrawal and of the student’s academic record.

b. Availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:

   i) Students who have met normal promotion requirements

   ii) Faculty-approved repeating students and students returning after voluntary withdrawal, in order of academic standing

c. The length of time the student interrupts studies leading to the DDS degree must not exceed two years in total.

10. Faculty Advisor: At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty.

11. All students registered in the Dentistry program are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association. This registration permits the practice of dentistry within the confines of the formal dental curriculum. Students in the DDS program are required to adhere to the professional code of ethics of the Alberta Dental Association (See §30.3.3 of the GFC Policy Manual).

12. Hepatitis B: Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre at the University of Alberta. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B "e" antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B "e" antigen or Hepatitis B viral DNA is positive the offer of acceptance will be withdrawn and registration in the DDS program will not be completed (see §15.8.5).

For those applicants who test negative to Hepatitis B surface antigen and are registered in the DDS program, Hepatitis B vaccination will be required. An exception will be made for those who are medically contraindicated or for those who have proof of Hepatitis B immunity. After vaccination, students will receive a test to determine if they have developed immunity. If they have not, further Hepatitis B vaccination scheduling will be determined by the University Health Centre. Those students who then fail to develop immunity will be counselled as to their potential risk status during training and future practice.

At all times students will follow Universal Precautions when there is potential of exposure to human blood or body fluids.

93.2.2 DDS Advanced Placement Program

The program leading to the DDS Advanced Placement is conducted in a minimum of two years (see 99.3, Years 3 and 4 of the DDS Program).

1. No credit will be granted for courses completed prior to admission and no course exemptions will be allowed.

2. The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See 52.8.2, Practicum Placements, Professional Practice and the Public Interest and 987 [GFC Policy Manual])

3. The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student’s progress and determining a student’s grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.

4. Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.

5. On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
(6) Reexaminations

a. Students are allowed reexamination privileges only in courses that are failed.
b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.
d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/ reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
i. Reexaminations in all both years of the Program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty Academic Standing and Promotion Committee.

(7) Academic Standing: Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty Academic Standing and Promotion Committee.

a. No student may proceed to next year of the Program and will be required to withdraw unless they have passed all courses for that academic year.
b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.
c. Students in the DDS Advanced Placement Program are not eligible for awards.

(8) Regulations Concerning Repetition of a Year because of Academic Failure: Students in the DDS Advanced Placement Program will not be permitted to repeat a year.

(9) Voluntary Withdrawal: A student in the DDS Advanced Placement Program who chooses to withdraw, forfeits the position and will not be readmitted.

(10) Faculty Advisor: At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty.

(11) All students registered in the DDS Advanced Placement Program are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association. This registration permits the practice of dentistry within the confines of the formal dental curriculum. Students in the Program are required to adhere to the professional code of ethics of the Alberta Dental Association (See §30.3.3 of the GFC Policy Manual).

(12) Hepatitis B: Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B "e" antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B "e" or Hepatitis B viral DNA is positive the offer of acceptance will be withdrawn and registration in the DDS Advanced Placement Program will not be completed.

For those applicants who test negative to Hepatitis B surface antigen and are registered in the DDS Advanced Placement Program, Hepatitis B vaccination will be required. An exception will be made for those who are medically contraindicated or for those who have proof of Hepatitis B immunity. After vaccination, students will receive a test to determine if they have developed immunity. If they have not, further Hepatitis B vaccination scheduling will be determined by the University Health Centre. Those students who then fail to develop immunity will be counselled as to their potential risk status during training and future practice.

At all times students will follow Universal Precautions when there is potential of exposure to human blood or body fluids.

Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into the DDS Advanced Placement Program. Those found to be positive will be counselled as to how to minimize the risk of transmission to patients and how to manage their own health. Testing of dental students may be performed a second time at a later stage of their program.

Human Immunodeficiency Virus (HIV): Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common. Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

93.2.3 Dental Hygiene Diploma/Bachelor of Science (Dental Hygiene Specialization)

The following apply to students in the Dental Hygiene Diploma or Bachelor of Science (Dental Hygiene Specialization) programs.

(1) Alberta certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required.

(2) Students entering the Dental Hygiene program may be granted credit for courses completed preprofessionally that are deemed by the Department Chair, in consultation with the course coordinator and the Chair of the Academic Standing Committee, to be demonstrably equivalent to courses for which credit is being sought. Credit is considered only when the student has achieved a grade of 6.0 or more in the qualifying course(s).

Students carrying a reduced academic load exceeding a total of 6 credits will not be eligible for awards.

(3) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87 GFC Policy Manual)

(4) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student’s progress and determining a student’s grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.

(5) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established within the Faculty and the University. Students must satisfactorily complete all components of all courses.

(6) Recommendations for promotion and graduation are based on a grade of at least 4.0 in each subject and a GPA of at least 5.0.

(7) Reexaminations: See §23.5.5.

a. Students are allowed reexamination privileges only in courses that are failed.
b. The Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail a maximum of two courses. Students who carry a reduced load will be allowed one reexamination.
c. The Academic Standing and Promotion Committee may allow reexamination of the didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely
A student wishing to temporarily withdraw in that year of the program.

If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.

Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.

The weight of reexamination is at least that of the final examination, but may be more (at the discretion of the Program Director).

The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark. Regardless of the mark awarded in a reexamination, the final course grade may not exceed 6.

Reexamination results do not alter the student’s class standing.

Any student who, after reexamination and/or evaluation fails to meet promotion/graduation requirements, is deemed to have failed the year.

A student who does not take a reexamination with the period time prescribed by the Faculty will not be allowed to continue in the program.

Reexamination Procedure

a. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.

b. First- and second-year Dental Hygiene students will take the reexamination as scheduled by June 30. Students in the third year will write after the end of the first term for first term courses, and by June 30 for second term and two term courses. Students in the fourth year will write reexaminations after Spring/Summer for Spring/Summer courses or at the end of first term for first term courses. Students in the Post Diploma Degree Completion Programs will write reexaminations after the applicable term. Students are advised to consult the Department.

Students are permitted to repeat first-year Dental Hygiene only in exceptional cases as determined by the Department Council. A first-year Dental Hygiene student permit to repeat the failed year must wait out one year before continuing in the program. Repeating students are considered for awards.

Students seeking readmission to the Dental Hygiene program have their application for readmission considered in competition with all other applicants by the Admissions Committee.

A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee acting on the advice of the Department concerned. A grade of at least 6.0 is required for Dental Hygiene courses. Students who carry a reduced academic load exceeding 6 from the normal Fall/Winter course load are not eligible for awards in that period.

A Special Category repeating third-year (student in diploma program)

a. has achieved a minimum GPA of 6.0 in the third-year program;

b. has clinical/practicum deficiencies in no more than two clinical courses and is advised that the deficiency could be corrected within a four-month period of instruction; and

c. has successfully completed all written examinations in the Dental Hygiene program.

Voluntary Withdrawal: A student wishing to temporarily withdraw registration in the Dental Hygiene Programs is required to make written application to the Dental Hygiene Program Director, stating the reasons for withdrawal. Readmission to the Dental Hygiene programs follow voluntary withdrawal will be based on the following:

a. Review, by the Faculty of the reasons for withdrawal and the student’s academic record;

b. Availability of a place, within quota, in the class to which the student is seeking readmission. Priority will be assigned in the following order:

   i) Students who have met normal promotion requirements.

   ii) Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing.

   c. The length of time the student interrupts studies leading to the Dental Hygiene Diploma or Bachelor of Science (Dental Hygiene Specialization) programs must not exceed two years in total.

   (14) Faculty Advisor: At the discretion of the Faculty, a faculty advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and the role of the faculty advisor is determined by the Faculty.

   (15) Hepatitis B: Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre at the University of Alberta. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B “e” antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B “e” antigen or Hepatitis B viral DNA is positive, the offer of acceptance will be withdrawn and registration in the Dental Hygiene Program will not be completed. (See §§15.8.3 and 15.8.4).

   For those applicants who test negative for Hepatitis B surface antigen and are registered in the Dental Hygiene program, Hepatitis B vaccination will be required. An exception will be made for those who are medically contraindicated or those who have proof of Hepatitis B immunity. After vaccination, students will receive a test to determine if they have developed immunity. If they have not, further Hepatitis B vaccination scheduling will be determined by the University Health Centre. Those students who then fail to develop immunity will be counselled as to their potential risk status during training and future practice.

   At all times students will follow Universal Precautions when there is potential of exposure to human blood or body fluids.

   Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Dental Hygiene. Those found to be positive will be counselled as to how to minimize the risk of transmission to patients and how to manage their own health.

   Human Immunodeficiency Virus (HIV): Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common. Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

   Students admitted to the Dental Hygiene program are required to present a certificate of satisfactory medical examination from a physician of the University of Alberta Health Centre as part of the Faculty requirement.

93.2.4 MD Program

Important note: The DDS and MD programs have been revised effective September 1998. Continuing students should consult the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Dentistry for further information. However, academic standing and promotion regulations, as established here, apply to all students in the program.

The program leading to the MD degree is conducted in four Years (1, 2, 3 and 4). Years 1 and 2 are under the direction of a preclinical coordinating committee and Years 3 and 4 under the direction of a clinical coordinating committee. (See §94.5.)

(1) No credit will be granted for courses completed in preprofessional years and no course exemptions will be allowed.

(2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §67 GFC Policy Manual).

(3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student’s progress and determining a student’s grades may vary from one course to another according to the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades, but students are informed at the beginning of the course how grades are to be determined.

(4) Students are advised at the beginning of each course, and year of the attendance requirements of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty and the University. Students who are absent for
more than two days in any course in which attendance is compulsory will not be given credit for that course and will be asked to repeat the course. Students must satisfactorily complete all components of all courses.

(5) Comprehensive Examinations:
   a. At the end of second year, students take a preclinical comprehensive examination (denoted as MED 520) covering material presented in the first two years of the program.
   b. At the end of fourth year, students take a comprehensive examination (denoted as MED 540) covering material presented in all four years of the program. Students must pass all clinical clerkship requirements in Years 3 and 4, excluding MED 540, before they will be allowed to take the comprehensive examination. The Academic Standing Committee will review eligibility for writing the comprehensive exam after students have met all clinical clerkship requirements, normally in late March.
   c. Students must pass the comprehensive examination before being promoted or allowed to graduate.

(6) Students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.

(7) Reexaminations
   a. Students are allowed reexamination privileges only in courses that are failed.
   b. A student repeating a year is not allowed reexamination privileges in that year.
   c. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
   d. If a reexamination is approved, satisfactory completion of a remedial program may be required before the student is permitted to take the reexamination.
   e. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
   f. The reexamination mark will replace the original final exam mark (as in the case of a deferred mark).
   g. For continuing students who entered the program prior to September 1998, reexamination privileges will be granted only if a student has failed two or fewer courses with course weights less than or equal to 20% of the total course weight for that year of the program.
   h. For students entering the program in September 1998 and beyond, reexamination privileges will be granted only to students failing one course in any year of the program.
   i. Reexamination of MED 540 Comprehensive Examination: Students who fail the comprehensive examination will be granted a reexamination.

(8) Academic Standing: Final decisions regarding academic standing and promotion to the next year of graduation are made by the Faculty Academic Standing and Promotion Committee.
   a. No student may proceed to any subsequent year of the medical program.
   b. No student will be allowed to repeat Year 1 of the MD program.
   c. Continuing students who entered the program prior to September 1998, who have failed two or more courses with course weights more than or equal to 20% of the total course weights for that Year of the program will be required to withdraw.
   d. Students entering the MD program in September 1998 and beyond who fail more than one course in a Year of the program will be required to withdraw from the program.

(9) Regulations Concerning Repetition of a year because of Academic Failure:
   a. No student will be allowed to repeat Year 1 of the MD program. At the discretion of the Dean, students in Year 2, 3 or 4 may be allowed to repeat a failed year.
   b. A student repeating a year is not allowed reexamination privileges in that year of the program.
   c. No student is allowed to repeat more than one year of the MD program.

(10) Voluntary Withdrawal: A student wishing to temporarily withdraw from the MD program is required to make written application to the Associate Dean of Undergraduate Medical Education. The reasons for withdrawal and the intended period of absence. Readmission to the MD program following voluntary withdrawal will be based on the following:
   a. review, by the Faculty, of the reasons for withdrawal and of the student’s academic record;
   b. Availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:
      i. students who have met normal promotion requirements.
      ii. Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing.
   c. The length of time the student interrupts studies leading to the MD degree must not exceed two years in total.

(11) Faculty Advisor: At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor shall be determined by the Faculty.

(12) All students registered in the MD program are required by provincial legislation to be registered in the Educational Register of the Alberta College of Physicians and Surgeons. This registration permits the practice of medicine within the confines of the formal medicine curriculum. Students in the MD program are required to adhere to the professional code of ethics of the Alberta College of Physicians and Surgeons. (See §303.3 of the GFC Policy Manual).

(13) Medical Examination
   Students admitted to the MD Program are required to present a certificate of satisfactory medical examination from a University of Alberta Health Centre physician. This requirement must be met before registration.
   To ensure, insofar as possible, both student and patient safety, the Faculty requires immunization against, or proof of immunity to, poliomyelitis, diphtheria, tetanus, measles, mumps, rubella, and hepatitis B. As well, varicella titre, hepatitis C and a two-step tuberculin skin test is required in the first year of the program and should be performed by the University of Alberta Health Centre.
   For students in Medicine, where there is a greater potential for transmission of bloodborne pathogens from students to patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:
   Hepatitis B: Hepatitis B surface antigen testing will be performed by the University Health Centre on all students accepted into the program. For those students who test negative for Hepatitis B surface antigen (HbsAg), Hepatitis B vaccination will be required. An exception will be made for those for whom it is medically contraindicated or for those individuals who have proof of prior vaccination and test positive for antibody to Hepatitis B surface antigen (anti-HBs). After vaccination, students will receive a second test to determine if they have converted to produce the appropriate antibody titre. If they have not converted they will receive a second vaccination and again be tested. Those students who then fail to convert will be counselled as to their potential risk status during training and future practice. All students who test negative for Hepatitis B surface antigen after vaccination will be tested again for surface antigen and Hepatitis B viral DNA at the end of second year, prior to starting clinical placements.
   For students who test positive for Hepatitis B surface antigen their "e" antigen (HbeAg) status and the presence of Hepatitis B viral DNA will be determined. If they are found to be positive for the "e" antigen or the viral DNA they will be counselled as to their risk of infecting patients and they will be required to follow a modified clinical training program.
   The decision of the Faculty as to the modifications to the training program may be appealed to the Practice Review Board (§87, GFC Policy Manual).
   At all times students will follow Universal Precautions when there is potential of exposure to human blood or body fluids.
   Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Medicine. Those found to be positive will be counselled as to how to minimize their risk of transmission to patients and how to manage their own health. Testing of Medical students may be repeated at the end of second year prior to their starting clinical placements.
   Human Immunodeficiency Virus (HIV): Currently, the data relating to the transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common.
Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

93.2.5 BSc Program in Medical Laboratory Science

(1) Promotion in the Medical Laboratory Science program depends on passing grades in all subjects of the previous year with a minimum GPA of 5.0, as well as the following requirements:

Phase I
Each laboratory instructor assesses the competence in communication, comprehension, and technical skills of each student four times throughout the academic year. These assessments are documented as a written evaluation that the student is asked to sign. At the end of the Phase, the instructors assign each student a pass or probationary rating based on these evaluations. Students with a GPA of 5.0 who have a majority of unsatisfactory technical ratings are permitted to proceed into Phase II on probation. Students in Phase II who are on probation must withdraw if they receive an unsatisfactory technical rating in any one course. Students entering Phase II with a majority of pass ratings from all the Phase I Medical Laboratory Science courses are assessed as having satisfactory standing.

Phase II
For those Medical Laboratory Science courses with both technical and academic demands, the student must successfully complete the requirements of both components to receive a passing grade.

The competence in communication, comprehension, and technical skills of each student will be assessed by Competency Based Objectives (CBOs) in each Medical Laboratory Science course. Students must pass all the CBOs for each course according to the policies outlined in the specific manuals for each course. Students who do not achieve this in any one course will be required to satisfactorily complete a remedial period of training in that course. A student who requires remedial training in more than one course will be required to withdraw. Students who have entered Phase II on probation (see Phase I) will not normally be allowed remedial training and will be required to withdraw.

(2) The quota for Phase I students is 26.

(3) Reexamination: See §23.5.5

(4) A student permitted to repeat a course or an entire phase must withdraw unless a minimum average grade of 0.0 is obtained on the repeated work.

(5) Any student whose technical work or academic performance is deemed unsatisfactory may be required to withdraw from the Faculty.

(6) For students in Medical Laboratory Science, where there is a greater potential for transmission of bloodborne pathogens from students to patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:

Hepatitis B: Hepatitis B antigen testing will be performed by the University Health Centre on all students after acceptance into the program. Students who test negative for Hepatitis B surface antigen (HbsAg), Hepatitis B vaccination will be required. An exception will be made for those for whom is medically contraindicated or for those individuals who have proof of prior vaccination and test positive for antibody to Hepatitis B surface antigen (anti-HBs). After vaccination, students will receive a second test to determine if they have converted to produce the appropriate antibody titre. If they have not converted they will receive a second vaccination and again be tested. Those students who then fail to convert will be counselled as their potential risk status during training and future practice.

For students who test positive for Hepatitis B surface antigen their “e” antigen (HbeAg) status and the presence of Hepatitis B viral DNA will be determined. If they are found to be positive for the “e” antigen or the viral DNA they will be counselled as to their risk of infecting patients.

Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Medical Laboratory Science. Those found to be positive will be counselled as to how to minimize their risk of transmission to patients and how to manage their own health.

Human Immunodeficiency Virus (HIV): Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common.

Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

93.3 Appeals and Grievances

Students may appeal academic standing decisions in the Faculty. There are informal ways to appeal as well as strict deadlines for submission of formal appeals. Students may obtain the Faculty’s complete appeal regulations from the Office of the Dean, 2J2 Walter MacKenzie Health Sciences Centre. Under certain conditions, an unsuccessful appeal in the Faculty may be carried to the General Faculties Council Academic Appeals Committee. See §23.8.

Students who have a grievance about a grade in an individual course taught in this Faculty should consult §23.8, which describes the informal process for addressing concerns about grades. There is also a formal process in the Faculty for appealing a grade. This process, including deadlines for submission of an appeal, is set out in the Faculty’s academic appeal regulations, available from the Office of the Dean, 2J2 Walter MacKenzie Health Sciences Centre.

93.4 Professional Standards for Students in the Faculty of Medicine and Dentistry

The University Code of Student Behaviour (§30 of the GFC Policy Manual) describes a range of non-academic and academic offences deemed unacceptable and for which a student may be penalized. Additionally, the Faculty of Medicine and Dentistry has filed with the Campus Law Review Committee a list of offences representing gross professional misconduct (see §30.3.3 of the GFC Policy Manual).

94 Programs of Study

94.1 Protection of Persons in Care

Students should be aware that under the Alberta Protection of People in Care Act, they can be required to satisfy a criminal records check before being allowed to serve a period of internship/practicum placement/work experience placement. Refer to §23.8.3.

94.2 DDS Degree

General Information

Curriculum

The Department of Dentistry offers a four-year (11-term) program leading to the degree of Doctor of Dental Surgery (DDS), following satisfactory completion (after senior matriculation) of at least two preprofessional years of university education. The preprofessional years provide the necessary background in inorganic chemistry, organic chemistry, biology, physics, biochemistry, statistics, the humanities, and social sciences.

The first and second years of the dental program are combined with the MD program. The curriculum is taught in blocks and covers areas as Infection, Immunity and Inflammation, Endocrine System, Cardiovascular, Pulmonary and Renal Systems, Gastroenterology and Nutrition, Reproductive Medicine and Urology, Musculoskeletal System, Neurosciences, Oncology. These subjects are augmented by dental courses offered by the respective divisions. The lectures, laboratories, seminars, and clinics offered by the Department of Dentistry relate and integrate these fundamental disciplines with the knowledge, skills, judgment, and performance required of dental practitioners.

Senior students are assigned to the Dental Clinic and the external hospitals is required in the final year of the program. Thus students are able to relate their field of health service to the science and art of preventing, treating, and alleviating disease.

See $175 for information on programs of graduate study offered by the Department.
Orientation

It is mandatory that each student, after acceptance into the program, attend Orientation. This is scheduled immediately before the beginning of the first term of each year.

Course Requirements

**Year 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMED 511</td>
<td>★3</td>
<td>5 weeks</td>
</tr>
<tr>
<td>DMED 512</td>
<td>★6</td>
<td>7 weeks</td>
</tr>
<tr>
<td>DMED 513</td>
<td>★6</td>
<td>6 weeks</td>
</tr>
<tr>
<td>DMED 514</td>
<td>★11</td>
<td>14 weeks</td>
</tr>
<tr>
<td>DDS 509</td>
<td>★12</td>
<td>10 weeks</td>
</tr>
<tr>
<td>DDS 510</td>
<td>★6</td>
<td>8 hr/wk</td>
</tr>
<tr>
<td>DDS 514</td>
<td>★2</td>
<td>0-0-66</td>
</tr>
<tr>
<td>DDS 518</td>
<td>★4</td>
<td>54-0-6</td>
</tr>
<tr>
<td>INT D 410</td>
<td>★3</td>
<td>0-32.5-0</td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMED 521</td>
<td>★5</td>
<td>6 weeks</td>
</tr>
<tr>
<td>DMED 524</td>
<td>★9</td>
<td>11 weeks</td>
</tr>
<tr>
<td>DMED 525</td>
<td>★3</td>
<td>4 weeks</td>
</tr>
<tr>
<td>DDS 520</td>
<td>★3</td>
<td>4 hr/wk</td>
</tr>
<tr>
<td>DDS 522</td>
<td>★1</td>
<td>7 weeks</td>
</tr>
<tr>
<td>DDS 523</td>
<td>★6</td>
<td>7 weeks</td>
</tr>
<tr>
<td>DDS 524</td>
<td>★3</td>
<td>25-0-50</td>
</tr>
<tr>
<td>DDS 529</td>
<td>★25</td>
<td>20 weeks</td>
</tr>
<tr>
<td>DDS 532</td>
<td>★4</td>
<td>60-0-0</td>
</tr>
<tr>
<td>DDS 533</td>
<td>★2</td>
<td>30-0-0</td>
</tr>
</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDS 541</td>
<td>★1</td>
<td>15-0-0</td>
</tr>
<tr>
<td>DDS 545</td>
<td>★52</td>
<td>40 weeks</td>
</tr>
<tr>
<td>DDS 547</td>
<td>★1</td>
<td>15-0-0</td>
</tr>
<tr>
<td>DDS 549</td>
<td>★3</td>
<td>25-0-45</td>
</tr>
<tr>
<td>DDS 555</td>
<td>★1</td>
<td>15-0-0</td>
</tr>
</tbody>
</table>

**Year 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDS 565</td>
<td>★50</td>
</tr>
</tbody>
</table>

30 weeks

94.3 DDS Advanced Placement Program

General Information

The Department of Dentistry offers an advanced placement DDS degree to a selected number of students who already possess a dental degree from a dental program recognized by the World Health Organization. After successful entry into the program, these students will enter the third year of the program and will be fully integrated with the third year students. The purpose of the program is to enable these students to write the National Dental Examining Board examinations for certification to practice dentistry in Canada.

Curriculum for Advanced Placement Students

Prior to entry into the program, students will be required to successfully complete a pre-clinical assessment course. This course will assess the students' ability to perform clinical procedures for the treatment of patients. If successful, these students will then enter the third year of the normal DDS program. First-year Advanced Placement students (third-year DDS program) will be assigned patients to treat in the University's Department of Dentistry clinics under the supervision of the clinical faculty.

Second-year Advanced Placement students will follow the fourth year DDS curriculum which will include assignments to the Satellite Dental Clinic and external hospitals. Thus students are able to relate their field of health service to the science and art of preventing, treating, and alleviating disease.

Course Requirements

**Year 1 (first year of the advanced placement program, regular third year DDS program)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDS 541</td>
<td>★1</td>
<td>15-0-0</td>
</tr>
<tr>
<td>DDS 545</td>
<td>★52</td>
<td>40 weeks</td>
</tr>
<tr>
<td>DDS 547</td>
<td>★1</td>
<td>15-0-0</td>
</tr>
<tr>
<td>DDS 549</td>
<td>★3</td>
<td>25-0-45</td>
</tr>
<tr>
<td>DDS 555</td>
<td>★1</td>
<td>15-0-0</td>
</tr>
</tbody>
</table>

94.4 Dental Hygiene Diploma/Bachelor of Science (Dental Hygiene Specialization)

General Information

The Department of Dentistry offers a Diploma in Dental Hygiene and a Bachelor of Science (Dental Hygiene Specialization). The Dental Hygiene Program enables students to acquire knowledge and develop skills and attitudes so that they may assume positions of responsibility in private dental practice or community health care settings.

The dental hygienist is an integral member of the health care team and strives to improve oral health by providing preventive and educational services to the public. Clinical dental hygiene services may include assessing patients' health status, inspecting hard and soft tissues of the oral cavity, removing deposits and stains from teeth, exposing and developing dental radiographs, applying topical fluorides, taking impressions for study models, and polishing amalgam restorations. Educational and management services for individuals and/or groups may include nutritional and oral hygiene counselling and community dental health program planning, implementation, and evaluation.

A Bachelor of Science (Dental Hygiene Specialization) will prepare dental hygienists to participate productively in a health care system that emphasizes prevention, primary care, accountability, quality and cost effectiveness. The dental hygienist with a baccalaureate degree is a leader in developing and initiating oral health interventions that prevent and control oral disease and promote oral wellness, and in facilitating change itself. The ultimate goal of a baccalaureate program is to prepare students to contribute significantly to the improvement of oral health goals in current and future health care delivery systems by preparing well-qualified professionals with knowledge, skills, and awareness at the baccalaureate degree level.

A Bachelor of Science (Dental Hygiene Specialization) degree will afford a broader range of opportunities. With a Bachelor of Science (Dental Hygiene Specialization) degree, graduates are more fully prepared to work in a large number of settings including, but not limited to private dental practices, research, education, industry, health care institutions or health promotion agencies. The Bachelor of Science (Dental Hygiene Specialization) degree prepares graduates to pursue post baccalaureate or graduate programs.

The Dental Hygiene curriculum includes courses from the Faculty of Medicine and Dentistry. During second, third, and fourth year, students participate in field experiences in various community settings, such as hospitals, schools, and community agencies/clinics. Experience in an external clinical clinic is required.

Also required is a ★3 course in interdisciplinary studies approved by the Department and normally scheduled in the evening.

In addition to the Diploma curriculum Year 1, 2 and 3, Bachelor of Science (Dental Hygiene Specialization) students will complete a fourth year. During the fourth year, students will learn the foundation of research, expand their knowledge in health promotion utilizing principles and theories of learning, health care organization theory and interdisciplinary ethics. In preparation for the leadership and management roles, leadership, management and decision-making skills are enhanced through didactic and dental hygiene clinical residency program. This program will provide students with a range of knowledge, human skills, attitudes and values essential for successful personal and professional growth. Additionally, the Residency program will provide students with advanced practice opportunities.

The Dental Hygiene Program is approved by the Commission on Dental Accreditation Education of Canada. Successful students must complete the National Dental Hygiene Certification Examination (Canadian). Successful students in the Dental Hygiene Program are encouraged to write the National Board Dental Hygiene Examinations of the American Dental Association.

Further details may be obtained from the Director of the Dental Hygiene Program, Faculty of Medicine and Dentistry.

Orientation

It is mandatory that each student, after acceptance into the program, attend Orientation. This is scheduled immediately before the beginning of the first term of each year.

Course Requirements

The numbers following a course name indicate either the number of weeks assigned to the course or the number of hours spent in lectures, clinics and laboratories.
Diploma in Dental Hygiene

Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT 200</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>BIOD 211</td>
<td>5.5</td>
<td>0-0-28</td>
</tr>
<tr>
<td>D HYG 211</td>
<td>6</td>
<td>0-0-28</td>
</tr>
<tr>
<td>D HYG 212</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 213</td>
<td>2</td>
<td>0-0-28</td>
</tr>
<tr>
<td>D HYG 220</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 222</td>
<td>2</td>
<td>28-0-0</td>
</tr>
<tr>
<td>D HYG 230</td>
<td>1.5</td>
<td>20-0-0</td>
</tr>
</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOCH 220</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 211</td>
<td>5.5</td>
<td>0-0-28</td>
</tr>
<tr>
<td>D HYG 212</td>
<td>6</td>
<td>0-0-28</td>
</tr>
<tr>
<td>D HYG 213</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 215</td>
<td>2</td>
<td>28-0-0</td>
</tr>
<tr>
<td>D HYG 220</td>
<td>3</td>
<td>28-0-0</td>
</tr>
<tr>
<td>D HYG 222</td>
<td>2</td>
<td>28-0-0</td>
</tr>
<tr>
<td>D HYG 230</td>
<td>1.5</td>
<td>20-0-0</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>D HYG 313</td>
<td>16</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 316</td>
<td>2.5</td>
<td>28-12-0</td>
</tr>
<tr>
<td>D HYG 317</td>
<td>2.5</td>
<td>35-0-0</td>
</tr>
<tr>
<td>D HYG 321</td>
<td>2</td>
<td>13-0-26</td>
</tr>
<tr>
<td>D HYG 322</td>
<td>1</td>
<td>14-0-0</td>
</tr>
<tr>
<td>D HYG 326</td>
<td>2.5</td>
<td>35-0-0</td>
</tr>
</tbody>
</table>

Bachelor of Science (Dental Hygiene Specialization)

In addition to completing the Dental Hygiene Diploma program, students who enroll in the Bachelor of Science degree will complete Year 4 courses.

Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 393 or SOC 382</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 413</td>
<td>7</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 417</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 422</td>
<td>2</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 440</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>HE ED 320 (or equivalent health promotion course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>REHAB 462 (or equivalent health-related research course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>SOC 210 (or equivalent statistics course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
</tbody>
</table>

One Option

The following program will be available for the Dental Hygiene Diploma class of 2000 and 2001.

Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 393 or SOC 382</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 413</td>
<td>7</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 417</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 440</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>HE ED 320</td>
<td>3</td>
<td>0-0-26</td>
</tr>
</tbody>
</table>

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program

A Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion program will prepare diploma dental hygiene graduates to participate more fully and productively in a health care system that emphasizes prevention, primary care, accountability, quality and cost effectiveness. The dental hygienist with a baccalaureate degree is a leader in developing and initiating oral health interventions that prevent and control oral disease and promote oral wellness, and in facilitating change itself. The ultimate goal of a baccalaureate program is to prepare students to contribute to the delivery systems by preparing well-qualified professionals with knowledge, skills, and awareness at the baccalaureate degree level.

The degree completion program will provide educational opportunities accessible to all qualified candidates tailorred to the experienced dental hygienist, the adult learner and the distance learner.

Program A

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates of 1988-2001.

This program is intended for students who graduated from the University of Alberta Dental Hygiene Program between 1988-2001. Dental Hygiene graduates of 1998-2001 have completed the extended diploma curriculum. The degree completion program consists of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 393 or SOC 382</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 417</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 440</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>HE ED 320 (or equivalent health promotion course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
</tbody>
</table>

Two Options

Program B

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates (prior to 1998) and dental hygiene graduates from other programs.

This program is intended for University of Alberta graduates prior to 1998 and diploma dental hygiene graduates from accredited dental hygiene programs in Canada and internationally.

The degree completion program consists of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 393 or SOC 382</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 417</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 440</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>HE ED 320 (or equivalent introductory health promotion course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>INT D 410</td>
<td>3</td>
<td>0-32-5-0</td>
</tr>
<tr>
<td>REHAB 462 (or equivalent health research course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>Options (2 courses at the 300- or 400-level)</td>
<td>6</td>
<td>0-0-26</td>
</tr>
</tbody>
</table>

Program C

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates (Year 2002 and forward).

Graduates of the University of Alberta Dental Hygiene Program of 2002 and forward will be required to complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 393 or SOC 382</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 417</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 422</td>
<td>2</td>
<td>0-0-26</td>
</tr>
<tr>
<td>D HYG 440</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>HE ED 320 (or equivalent health promotion course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>REHAB 462 (or equivalent health research course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>SOC 210 (or equivalent statistics course)</td>
<td>3</td>
<td>0-0-26</td>
</tr>
<tr>
<td>Options (two courses at the 300- or 400-level)</td>
<td>9</td>
<td>0-0-26</td>
</tr>
</tbody>
</table>

94.5 MD Degree

General Information

Important note: The MD program was revised effective September 1998. The following program listed in this edition of the University Calendar applies only to those students admitted from September 1998 and on. Continuing students in this program, who registered previous to 1998, are directed by the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Dentistry for further information.

The program leading to the MD degree is conducted over four years, Years 1 and 2 are under the direction of an interdepartmental coordinating committee and Years 3 and 4 are under the direction of a second interdepartmental committee.

Years 1 and 2 are the pre-clinical years in which the material is presented in a series of system-based course blocks. Each block presents the material in a reasoned progression from basic information to clinical application. There are two separate, but coordinated courses, dealing with the social/ sociological/public health and clinical skills aspects of medicine, which are scheduled throughout this period.

Years 3 and 4 are the clinical years. Year 3 includes a rotation of 3 weeks, followed by a student internship of approximately 49 weeks. During this latter period there is also some opportunities for elective courses and a holiday period. Year 4 is a senior clinical year of approximately 34 weeks, which includes some courses, student rotations, electives and a holiday period. Each student in consultation with the Undergraduate Medical Education Office, develops their own elective program. A wide range of approved elective programs in all aspects of medical science, medical practice and related areas is available.
Orientation

It is mandatory that each student, after acceptance into the program, attend Orientation. This is scheduled immediately before the beginning of the first term.

Course Requirements

Year 1
1. DMED 511 (5 weeks)
2. DMED 512 (7 weeks)
3. DMED 513 (6 weeks)
4. DMED 514 (14 weeks)
5. MED 516 (8 hours/week)
6. MED 517 (12 hours)
7. INT D 410 (0-32.5-0)

Year 2
1. DMED 521 (6 weeks)
2. DMED 524 (11 weeks)
3. DMED 525 (4 weeks)
4. MED 522 (7 weeks)
5. MED 523 (7 weeks)
6. MED 526 (8 hours/week)
7. MED 527 (12 hours)
8. MED 520 (9 hours)

Year 3
1. MED 532 (3 weeks)
2. ANAES 548 (1 week)
3. F MED 546 (4 weeks)
4. MED 546 (2 weeks)
5. MED 546 (6 weeks)
6. MED 547 (8 weeks)
7. OB GY 546 (6 weeks)
8. PAED 546 (6 weeks)
9. PSYC 546 (6 weeks)
10. SURG 546 (6 weeks)
11. MED 531 (36 hours)

Year 4
1. MED 556 (6 weeks)
2. MED 557 (5 weeks)
3. MED 558 (4 weeks)
4. PAED 556 (3 weeks)
5. PSYC 556 (3 weeks)
6. SURG 556 (6 weeks)
7. MED 542 (3 weeks)
8. MED 541 (36 hours)
9. MED 540 (9 hours)

Program of Courses

Phase I
1. MMF 240 (★6)
2. MLSCI 230 (★3)
3. MLSCI 235 (★1)
4. MLSCI 250 (★3)
5. MLSCI 262 (★3)
6. MLSCI 263 (★3)
7. MLSCI 270 (★2)
8. PHYSL (★6)
9. Arts Option (★3)
10. BIOC H 203 (★3)
11. BIOC H 205 (★3)

Phase II
1. ★12 chosen from MLSCI 430, 460, 466, 475, 481, M M I 440, 426 or 427 or 405 or 415
2. MLSCI 480 (★3)
3. MLSCI 410 (★1)
4. Project course: INT D 491 (★6) or 409 (★3) and Science option (★3) (see Note)
5. INT D 410 (★3)
6. Arts option (★3)
7. Approved option (★3)

94.8 Honors in Research Program in Medical Laboratory Science

This program is for students looking for in-depth exposure to research during Medical Laboratory Science education. Students wanting to pursue this program will have a GPA of at least 7.5 in courses taken in the first and second phases of the program and will have completed STAT 141, 151, 337, or equivalent. Students must spend one summer (16 weeks) and complete a ★6 research course offered by the Division. All students are supervised by a staff member who has shown commitment to the project and to the financial support of the student for the summer months. The program is monitored by the MD Research Committee. Successful students receive recognition on their transcripts and degrees through the notation “With Honors in Research.” For information, contact the Director, Division of Medical Laboratory Science, B-117 Clinical Sciences Building.

94.9 Degree of Bachelor of Medical Science

The degree of Bachelor of Medical Science may be awarded to students in the DDS or MD program at the end of the second year of that program who have fulfilled the following requirements at this or another university.

First and Second Year
Prerequisite courses required for entrance to the DDS or MD program.

Third and Fourth Year
Preclinical (Years 1 and 2) of the DDS or MD program.

Provisions
(1) None of the courses in the first and second year has been used for credit toward another degree.
(2) At least the final two years have been taken at the University of Alberta.
(3) All courses have been successfully completed.

94.10 Graduate Studies

The Faculty of Medicine and Dentistry offers Master’s and PhD degrees, as well as a Postgraduate Diploma in Health Services Administration. The Department of Dentistry also offers an MSc Degree in Orthodontics. Details on these programs can be found in the Graduate Programs section of the Calendar, listed by department.

94.11 Continuing Medical Education and Multimedia Production Services

Continuing Medical Education and Multimedia Production Services provides practising physicians with the opportunity to remain up-to-date in
knowledge, skills and attitudes. The Division organizes various postgraduate learning events for family practitioners and specialists. These include one- to three-day conferences in Edmonton or a resort area, regional conferences in outlying hospitals of central and northern Alberta, a telephone conference program to physicians in smaller communities, an evening course series, major university-based courses, clinical traineeships and distance learning programs, and a medical information service in the teaching hospitals of Edmonton. The Division cosponsors teaching events with various para-medical organizations if they appear to relate to improvement of health care. The Division enjoys the support of the College of Family Physicians of Alberta, Alberta Health, and the Alberta Medical Association.

Inquiries about these programs should be directed to the Associate Dean Director, Continuing Medical Education and Multimedia Production Services, 2J3 Walter C Mackenzie Health Sciences Centre, University of Alberta, Edmonton, AB T6G 2R7.

94.12 Continuing Dentistry Education

The Department of Dentistry sponsors a wide variety of continuing dental education opportunities throughout the year through the Continuing Dental Education program. Courses are offered both on campus and occasionally at other sites within the province. Annually, thousands of dentists, dental hygienists, dental assistants and others participate in the many lecture, hands-on clinical and laboratory-type courses that are offered. Local and visiting speakers of national and international reputation provide continuing education of a high quality.

94.13 Postgraduate Medical Education

Postgraduate medical training is a component of eligibility for licensure in Canada. Programs are operated by the University of Alberta according to guidelines established by the College of Family Physicians of Canada and by the Royal College of Physicians and Surgeons of Canada. Postgraduate training accredited by the College of Family Physicians of Canada is available under the auspices of the Department of Family Medicine. In addition to the standard two-year program required for certification in Family Medicine, a certificate program in Emergency Medicine and a diploma program in Care of the Elderly are also available with an additional year of training. Specialty programs accredited by the Royal College of Physicians and Surgeons of Canada include the following:

94.13.1 Primary Certification Programs

Anaesthesia
Anatomical Pathology
Cardiac Surgery
Dermatology
Diagnostic Radiology
Emergency Medicine
General Pathology
General Surgery
Haematological Pathology
Internal Medicine
Medical Microbiology
Neurology
Neurosurgery
Nuclear Medicine
Obstetrics and Gynaecology
Occupational Medicine
Ophthalmology
Orthopaedic Surgery
Otolaryngology
Paediatrics
Physical Medicine and Rehabilitation
Plastic Surgery
Psychiatry
Radiation Oncology
Urology

94.13.2 Certificate of Special Competence Programs

Cardiology
Endocrinology
Gastroenterology
Geriatric Medicine
Haematology
Infectious Diseases
Medical Oncology
Nephrology
Paediatric Cardiology
Paediatric Endocrinology and Metabolism
Paediatric Infectious Diseases
Pulmonary Medicine
Rheumatology

94.13.3 Accreditation Without Certification Programs

Critical Care Medicine
Neonatology
Palliative Care Medicine

Inquiries regarding these programs should be directed to the Associate Dean, Postgraduate Medical Education, 2J2.06 Walter C Mackenzie Health Sciences Centre, University of Alberta, Edmonton, AB T6G 2R7.

All postgraduate medical trainees are registered as graduate students in the Division of Postgraduate Medical Education of the Faculty of Medicine and Dentistry and pay a program registration fee.

Application for entry-level postgraduate positions in all Primary Certification Programs is made through the Canadian Resident Matching Service (CaRMS) in the final year of medical school. Further information is available from the Canadian Resident Matching Service, #802, 151 Slater Street, Ottawa, ON K1P 5H3. Certificate of Special Competence and Accreditation Without Certification Programs require prior training in a Primary Certification Program. All international medical graduates must pass the Evaluating Examination and Part I of the Qualifying Examination of the Medical Council of Canada. Information is available from the Medical Council of Canada, Box 8234, Station T, Ottawa, ON K1G 3H7.

The requirements for a portable license valid in all Canadian provinces except Quebec are as follows:

1. An MD degree.
2. The Licentiate of the Medical Council of Canada (LMCC), obtained after successfully passing Parts I and II of the Medical Council of Canada Qualifying Examination (MCCQE). Part I is written in May of the final year of medical school. Part II is written after completing 12 months of postgraduate clinical training.
3. Certification from either the College of Family Physicians of Canada or the Royal College of Physicians and Surgeons of Canada.

Further information regarding licensure is available from the College of Physicians and Surgeons of Alberta, #900, 10180-101 Street, Edmonton, AB T5J 4P8.

Note: For classification purposes, postgraduate medical students are considered graduate students. As such, they have the option of paying fees to the Graduate Students’ Association.

95 Courses

Faculty of Medicine and Dentistry courses are listed in §201, Course Listings, under the following subject headings:

Anaesthesia (ANAES)
Anatomy (ANAT)
Biochemistry (BIOCH)
Biomedical Engineering (BME)
Cell Biology (CELL)
Dentistry (DDS)
Dentistry (DENT)
Dentistry/Medicine (DMED)
Dental Hygiene (DHYG)
Family Medicine (F MED)
Medical Genetics (MDGEN)
Medical Laboratory Science (MLSCI)
Medical Microbiology and Immunology (MMI)
Medicine (MED)
Medicine, Interdepartmental (INT D and MED)
Neuroscience (NEURO)
Obstetrics and Gynaecology (OB GY)
Oncology (ONCOL)
Ophthalmology (OPHTH)
Oral Biology (DBIOL)
Paediatrics (PAED)
Pathology (PATH)
Pharmacology (PMCOL)
Physics/Biomedical Engineering (PH BE)
Physiology (PHYSL)

Postgraduate Medical Education (PGME)
Psychiatry (PSYCI)
Public Health Sciences (PHS)
Radiology and Diagnostic Imaging (RADDI)
Surgery (SURG)