

# Faculty of Medicine and Dentistry



90	The Faculty of Medicine and Dentistry	2
91	The Professors	3
91.1	Teaching and Scholarship	3
92	General Information	9
92.1	Department of Oral Health Sciences Objectives	9
92.2	Affiliated Hospitals and Institutions	9
92.3	Registration and Licensing	10
92.4	Finance	11
92.5	Medical and Dental Society Memberships	11
93	Admission and Academic Regulations	11
93.1	Admission	11
93.2	Academic Standing and Graduation	12
93.3	Appeals and Grievances	15
93.4	Professional Standards for Students in the Faculty of Medicine and Dentistry	15
94	Programs of Study	15
94.1	Protection of Persons in Care	15
94.2	DDS Degree	15
94.3	Dental Hygiene Diploma	16
94.4	MD Degree	17
94.5	Honors in Research Program in Medicine	17
94.6	Degree of BSc in Medical Laboratory Science	17
94.7	Honors in Research Program in Medical Laboratory Science	17
94.8	Degree of Bachelor of Medical Science	18
94.9	Graduate Studies	18
94.10	Continuing Medical Education	18
94.11	Continuing Oral Health Sciences Education	18
94.12	Postgraduate Medical Education	18
95	Courses	19

## 90 The Faculty of Medicine and Dentistry

### 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	14
Number of Academic Staff	356
Number of Clinical Staff	790
Number of Support Staff	235
Number of Trust Employees	397
Numbers of Students and Residents	
Medical Students	420
Medical Residents	470
Dental Students	128
Dental Residents	3
Dental Hygiene Students	82
Medical Laboratory Science Students	75
Graduate Students:	351

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  
<http://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. Recently, a member of the Faculty has been the recipient of one of the 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 \$60 million in outside funding for 1997-98, 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 others of the 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**  
DLJ Tyrrell

### Associate Deans

RA Bear  
CI Cheeseman  
P Davis  
G Goldsand  
PA Gordon  
GW Raborn  
JH Weiner

### Assistant Deans

CG Baker  
MC Palmer  
BR Stevenson

### Faculty Service Officers

V Chlumecky  
DM Gupta

### Administrative Officers

BK Esslinger  
C Iwanicka  
P Stack

### Faculty Departments

#### Anaesthesia

**Chair and Professor**  
BT Finucane

#### Professor

\*AS Clanachan

#### Associate Professor

BA Finegan

#### Assistant Professors

SN Gupta  
RA Kearney  
S Rashiq

### Clinical Professor

RC Gregg

### Associate Clinical Professors

HL Carle  
MXM Coughlan  
DB DuVal  
LM Entwistle  
SM Ferreira  
LR Hatch  
LJ Huston  
RG Johnston  
BE Marchak  
DD Vincent

### Assistant Clinical Professors

RG Bergstrom  
BJ Bucyk  
JG Cormack  
DJ Cubitt  
JM Dupuis  
DR Gamez  
CR Guenther  
AS Guest

IA Hopkins  
LY Huang  
V Jensen  
N Klassen  
JT Lilley  
TA Mayson  
KA Munn  
WJ Murtha  
SG Nadeau  
CJ Noble  
SA Olson  
YM Patel  
S Paterson  
GA Perez  
BZ Petriw  
H Reine  
SL Scott  
RF Seal  
JD St Clair  
RJ Taggesell  
C Tang  
DH Wiebe  
TW Yeh

### Clinical Lecturers

LB Baron  
MH Bercovich  
R Brown  
PG Cisar  
BPV Delbecq  
A Gidwaney  
D Gray  
DA Hardy  
R Haugen  
DT Jolly  
B Knight  
JP Koller  
AI MacDonald  
M Martin  
K Martindale  
JA Moir  
SJ Reid  
ZS Saleh  
OJ Schneider  
PD Wildgrube

### Professor Emeritus

DF Cameron

## Biochemistry

### Acting Chair and Professor

BD Sykes

### Professors

RC Bleackley  
DN Brindley  
\*CE Cass  
MJ Ellison  
RS Hodges  
MNG James  
RN McElhaney  
M Michalak  
RO Ryan  
P Scott  
\*DLJ Tyrrell  
DE Vance  
JH Weiner

### Associate Professors

LB Agellon  
L Fliegell  
\*R Godbout  
CFB Holmes  
BD Lemire  
JC Stone

### Assistant Professors

\*L Berthiaume  
JNM Glover  
MC Schultz  
D Stewart

### Professors Emeriti

WA Bridger  
JS Colter  
CM Kay  
NB Madsen  
AR Morgan  
VH Paetkau  
LB Smillie

### Faculty Service Officer

WT Wolodko

### Administrative Officer

GM Redmond

## Biomedical Engineering

### Chair and Professor

PS Allen

### Professors

BJ Andrews  
ZJ Koles  
\*RV Rajotte  
RE Snyder  
\*FX Witkowski  
\*JF Wolfaardt

### Associate Professor

\*SA Jackson

### Assistant Professors

H Uludag  
AH Wilman

### Professors Emeriti

D Fenna  
DJ Griffiths  
TR Overton

### Adjunct Professors

D Bennet  
MG Faulkner  
\*RH Hooper  
A Kostov

## Cell Biology and Anatomy

### Chair and Professor

RA Rachubinski

### Divisional Director (Anatomy) and Professor

DB Russell

### Professors

KM Bagnall  
DA Begg  
RB Campenot  
TL Krukoff

### Associate Professors

\*WJ Gallin  
P Melançon  
M Pasdar  
\*D Pilgrim  
DN Singh  
BR Stevenson  
AH Walji

### Associate Clinical Professor

LP Sterns

### Assistant Professors

J Aitchison  
L Berthiaume  
T Hobman  
\*R Lehner  
E Shibuya  
R Wozniak

### Professors Emeriti

TS Leeson  
K McFadden  
RS Smith  
HIA Zaw-Tun

## Family Medicine

### Chair and Professor

DG Moores

### Professor

\*P Jacobs

### Associate Professors

NR Bell  
FR Brenneis  
R Brownoff  
A Cave  
RG Chaytors  
MG Donoff

### \*RL Fainsinger

\*B Holroyd  
P Humphries  
P Klemka  
EH Krikke  
GR Spooner  
J Triscott

### Assistant Professors

M Cave  
L Gaede  
S Hughes  
J O'Hara  
I Steiner  
P Yoon

### Associate Clinical Professors

D Chang  
\*MA Cherniwhan  
\*GE Cummings  
KJ Gardener  
N Hans  
H Hays  
CJ Lord  
EW Papp  
\*DL Shragge  
R Sojn  
\*TD Sosnowski

### Assistant Clinical Professors

WD Armstrong  
MA Atrens-Sharko  
SK Aung  
AE Ausford  
BH Banmann  
DW Bond  
\*HA Borkent  
\*M Boulanger

### \*JJ Brown

PA Caffaro  
SW Chambers  
WE Clelland  
IE Colliton  
R Cunningham  
N Flook

### JG Gokiart

\*MS Gross  
HR Hindle  
\*SK Kelcher  
TD Kolotyluk  
DJ Konkin  
SE Low  
DS Mackey  
\*AR Murray  
\*C Neal  
J Parmar  
\*WR Patton  
TF Ranieri  
M Reedyk  
JG Reilly

### JM Robinson

WE Schneider  
EP Schuster  
MR Smith  
RM Stepanko  
JC Taylor  
JR Tilley  
\*AF Walker  
BRB Whittaker  
HA Zirk

### Clinical Lecturers

\*BL Abel  
JR Andreiuk  
DM Andriashek  
FW Armstrong  
JB Armstrong  
MD Armstrong  
H Babilitz  
I Bailles  
AL Bailey  
LL Baker  
T Bakshi  
DJ Barer  
JB Barsky  
DL Belcher  
JE Bell  
L Bernier-Lycka  
GR Blais

MM Bodmer  
DW Boettger  
MA Bowland  
BW Boyko  
TB Bray  
RG Brown  
WM Brown  
MJ Caffaro  
DB Cave  
AYL Chiu  
JF Chiu  
DJ Cook  
JE Craig  
RF Crowe  
AC Dacunha  
\*JMB Davidson  
BC Deane  
LD Dujon  
RH Dunbar  
LR Edwards  
\*CGM Evans  
JA Field  
SD Flanagan  
TF Flanagan  
P Friese  
K Ghali  
SC Ghitte-Mannes  
JM Godel  
NM Gray  
JJ Hankinson  
VM Hanlon  
BC Hayden  
TL Heisler  
ES Holmes  
DJ Hryciuk  
JR Hunter  
ME Hurlburt  
GW Jakeway  
AJ Jarema  
CG Johnston  
RB Kaasa  
MC Kash  
PE Keith  
DA Kent  
DG Killick  
DW Korzenowski  
RT Kruhlik  
GA Lamoureux  
R Laughlin  
DM Leung  
MR Lidkea  
MJ Long  
CC Lopuschuk  
KAH Lundgard  
LM Ma  
K Mangán  
PA Marner  
RA Martin  
GG Mazurek  
T McKeown  
DP Miller  
JA Mohler  
W Molberg  
NJ Morison  
MG Moss  
JD Murphy  
DL Myhre  
ED Ndovi  
S Needham  
KD Neilson  
AE Nett  
BL Oldale  
P Palma  
P Paludet  
DJ Paras  
GL Phillips  
AJD Pope  
\*SA Poplawski  
\*RA Purser  
R Rajput  
DA Reid  
WJ Reynolds  
BD Ritchie  
JD Ritchie  
JC Routledge  
PJA Ruiter  
DR Ryan

M Saayman  
JJ Saunders  
GD Scheirer  
TW Sefcik  
RK Sherman  
HS Sidhu  
\*TP Stetsko  
\*DF Stewart  
K Towers  
AW Ushko  
RJ Vincent  
DA Webb  
RJ Wedel  
DDS Welch  
CN Westover  
ML Wickland-Weller  
HP Woytiuk  
AK Yeung  
C Young  
MJ Young

**Professors Emeriti**  
RR Cherry  
GL Higgins

**Faculty Service Officer**  
O Szafran

**Adjunct Professors**  
\*NL Gibson  
L Meadows

### Laboratory Medicine and Pathology

**Acting Chair**  
DC Rayner

**Professors**  
LH Honore  
LD Jewell  
LE McGann  
G Nguyen  
PA Gordon  
K Solez  
RW Yatscoff

**Associate Professors**  
G Cembrowski  
RW Coupland  
J Hugh  
HAA Idikio  
ES Johnson  
RF Power  
DC Rayner  
\*AR Turner

**Assistant Professors**  
FJ Bamforth  
R Chibbar  
C Hao  
\*XC Le  
R Lai  
L Puttagunta  
G Tyrrell

**Clinical Professors**  
TA Kasper  
PKF Petrik

**Associate Clinical Professors**  
JM Danyluk  
DTP Dawson  
AJ Derbawka  
GP Dowling  
WS Etches  
DF LeGatt  
\*EH Schloss  
T Thay  
DJ Willans

**Assistant Clinical Professors**  
RJ Audette  
B Bannach  
H Berendt  
RC Berendt  
G Blakney  
LGJ Boutin  
G Clarke  
LN Denmark  
HL Rutter  
J Hannon

TE Higa  
T Higgins  
GH Johnson  
GR Jones  
DW Kinniburgh  
VL McCann  
DR McLean  
DM Morrison  
GD Neuman  
G Orlando  
C Prosser  
N Rayani  
LJM Russell  
N Satkunam  
ICF Sin  
GO Wood  
HWA Wu

**Professors Emeriti**  
CC Lin  
BW Mielke  
TK Shnitka  
RA Stinson  
RJ Swallow

**Honorary Associate Professor**  
WT McGaw

**Adjunct Professors**  
A Malcolm  
M Stewart

### Medical Laboratory Science

**Acting Director**  
FJ Bamforth

**Assistant Professor**  
PL Letendre

**Lecturers**  
S Chamberlin  
M Fraser  
LE Purdy  
EE Rivait  
MA Williams

**Clinical Instructors**  
M Ackney  
R Cunningham  
I Fenger-Andersen  
R Lane  
I Simpson

**Administrative Officer**  
JL McPhee

### Medical Genetics

**Chair and Professor**  
DW Cox

**Professors**  
\*I MacDonald  
DJ Tomkins

**Associate Professors**  
JS Bamforth  
\*D Gilchrist  
H McDermid  
\*M Walter

**Assistant Professors**  
S Andrew  
\*FJ Bamforth  
DM Glerum  
NJ Leonard  
MJ Somerville  
D Underhill  
R Wevrick

### Medical Microbiology and Immunology

**Chair and Professor**  
JR Smiley

**Professors**  
GD Armstrong  
\*D Befus  
\*M Belosevic  
\*EA Fanning  
\*G Goldsand

LJ Guilbert  
\*PF Halloran  
RT Irvin  
\*RPB Larke  
\*R Moqbel  
\*LM Piliarski  
\*A Rabinowitch  
JA Robertson  
DE Taylor  
\*GD Taylor  
DLJ Tyrrell  
\*JH Weiner

### Associate Professors

JF Elliott  
\*SC Houston  
K Kane  
K Kowalewska-Grochowska  
DY Kunimoto  
\*W Maksymowych  
\*L Miedzinski  
HL Ostergaard  
MS Peppler  
\*JK Preiksaitis  
L Sigler  
\*W Vaudry

### Assistant Professors

\*AM Joffe  
R Kumar  
\*J Robinson

### Clinical Professors

SI Hnatko  
RP Rennie

**Associate Clinical Professors**  
\*B Romanowski  
JA Talbot

**Assistant Clinical Professors**  
E Blondel-Hill  
\*L Boychuk  
\*I Chiu  
JC Galbraith  
B Lee  
J Nigrin

### Professors Emeriti

JW Carmichael  
E Diener  
JMS Dixon  
FL Jackson  
BM Longenecker  
RG Marusyk  
OEZ Morgante  
RLS Whitehouse

### Faculty Service Officers

P Dickie  
R Sherburne  
KK-Y Yu

**Administrative Officer**  
M Wohlbe

### Adjunct Professors

DR Bundle  
N Dovichi  
MC Finlayson  
T Mosmann  
RJ Read  
MJ Robins  
B Singh  
GW Stemke

### Medicine

**Chair and Professor**  
PW Armstrong

**Associate Professor**  
\*DL Saunders

**Assistant Clinical Professor**  
\*SK Aung

**Administrative Officers**  
R Mah  
JC Morrison

### Cardiology

**Director and Professor**  
SL Archer

**Professors**  
PW Armstrong  
C Basualdo  
M Haraphongse  
BJ Jugdutt  
FX Witkowski

### Associate Professors

JR Burton  
V Dzavik  
DP Humen  
KM Kavanagh  
D Manyari  
DA Taylor  
KK Teo  
\*RT Tsuyuki  
WJ Tymchak

### Assistant Professors

\*MR Joffres  
\*MJ Kantoch  
SKM Kimber  
ED Michelakis

### Clinical Professors

PV Greenwood  
WKK Hui

### Associate Clinical Professors

B Cujec  
SS Gulamhusein  
Z Lakhani  
MPJ Senaratne  
T Talibii

### Assistant Clinical Professors

LA Kasza  
TG Muzyka  
RG Williams

### Clinical Lecturers

\*NS Brass  
DM Hammer  
M Hoskinson

**Clinical Associate**  
DM Hammer

### Professors Emeriti

RS Fraser  
RE Rossall

**Adjunct Professor**  
TJ Montague

### Clinical Hematology and Medical Oncology

**Director and Professor**  
AR Turner

### Professors

\*JJ Akabutu  
\*AR Belch  
\*ED Bruera  
\*PA Gordon  
MJ Mant  
\*TA McPherson

### Associate Professors

\*ALA Fields  
A Janowska-Wieczorek  
LM Larratt  
\*ARE Shaw  
\*PM Venner

### Assistant Professors

\*MC Palmer  
DBC Ritchie

**Assistant Clinical Professor**  
\*JL Hannon

**Professor Emeritus**  
\*RN MacDonald

### Dermatology and Cutaneous Sciences

**Director and Associate Professor**  
A Krol

**Associate Professor**  
AN Lin

### Assistant Professor

TG Salopek

### Clinical Professors

J Brown  
EH Schloss

### Associate Clinical Professors

DW Groot  
NA Jampolsky  
JY Liao

### Assistant Clinical Professors

GJ Lauzon  
BAS Lycka  
MB Rogers

### Clinical Lecturer

GE Searles

### Adjunct Professor

K Jimbow

### Endocrinology and Metabolism

### Director and Associate Professor

RZ Lewanczuk

### Professors

\*DN Brindley  
CLY Chik  
\*DC Cumming  
J Ginsberg  
\*S Harvey  
\*SE Jacobs  
DW Morrish  
A Rabinovitch  
EA Ryan  
\*JZ Scott  
J Vance

### Associate Professors

\*WA McBlain  
EL Toth

### Assistant Professors

GA Francis  
TJ Kieffer  
LE Mereu

### Professors Emeriti

PM Crockford  
RN Eidem  
DM Fawcett  
GD Molnar

### Adjunct Professor

S Yokoyama

### Gastroenterology

**Director and Professor**  
RN Fedorak

### Professors

\*MT Clandinin  
ABR Thomson

### Associate Professors

VG Bain  
\*MI McBurney  
BR Yacyszyn

### Assistant Professors

\*CJ Field  
K Gutfreund  
M Ma  
KL Madsen  
WW Wong

### Clinical Professors

RJ Bailey  
RW Sherbaniuk  
CM Switzer  
RH Wensel

### Associate Clinical Professors

JP McKaigney  
\*MS Millan  
DC Sadowksi

### Assistant Clinical Professors

RD Cherry  
JP Ferguson

LM Gramlich  
EAG Lalor  
DN Todoruk

**Clinical Lecturer**  
K Matic

**General Internal Medicine**

**Director and Associate Professor**  
NE Brown

**Professor**  
CH Harley

**Associate Professors**  
BW Fisher  
DM Gilchrist  
PG Hamilton  
\*AAC Yeung

**Assistant Professors**  
\*SC Houston  
N Kassam  
\*RZ Lewanczuk

**Clinical Professors**  
WR Black  
KC Bowering  
\*GF MacDonald

**Associate Clinical Professors**  
\*WJ Dickout  
\*IA Ferguson  
E Kretzul  
JT McCaffery  
MG Nutting  
AJ Voith

**Assistant Clinical Professors**  
J Allan  
\*JS Archibald  
A Cairns  
DA Campbell  
NE Gibson  
MS Millan  
E Raff  
DJ Tusz

**Clinical Lecturers**  
A Bharmal  
RA Hosein  
S Majumdar  
LER Malowany

**Professors Emeriti**  
LM Anholt  
JB Dossator  
AM Edwards  
\*RN Eidem  
JAL Gilbert  
JC Hopkyns

**Geriatric Medicine**

**Director and Professor**  
AL Schlater

**Professor**  
PN McCracken

**Associate Clinical Professors**  
AG Juby  
\*JA Triscott

**Associate Professor**  
KE Lechelt

**Assistant Clinical Professor**  
I Kiss

**Clinical Lecturer**  
DB Rolfson

**Adjunct Professor**  
AR Dobbs

**Adjunct Associate Professor**  
JE McElhane

**Immunology and Nephrology**

**Director and Professor**  
PF Halloran

**Professors**  
R Bear  
MK Dasgupta  
T Kovithavongs  
RA Ulan  
\*DR Wilson

**Associate Professor**  
SM Cockfield

**Assistant Professors**  
PM Campbell  
J Grynoch  
AW McMahan  
AG Murray  
SD Soroka

**Associate Clinical Professors**  
IA Ferguson  
MW Lee

**Adjunct Professor**  
CMF Kjellstrand

**Infectious Diseases**

**Director and Professor**  
SD Shafran

**Professors**  
EA Fanning  
G Goldsand  
\*CL Soskolne  
GD Taylor  
\*DLJ Tyrrell

**Associate Professors**  
\*L-J Chang  
SC Houston  
\*DY Kunimoto  
LJ Miedzinski  
JK Preiksaitis

**Assistant Professor**  
\*MA Joffe

**Clinical Professor**  
B Romanowski

**Associate Clinical Professor**  
LR Boychuk

**Assistant Clinical Professors**  
E Blondel-Hill  
I Chiu

**Neurology**

**Director and Professor**  
A Shuaib

**Professors**  
JH Jhamandas  
WR Martin  
KG Warren

**Associate Professors**  
MG Elleker  
DS Fulton  
AMW Penn

**Assistant Professor**  
M Javidan

**Clinical Professor**  
AF Wilson

**Associate Clinical Professors**  
E Starreveld  
C Tai  
NJ Witt

**Assistant Clinical Professors**  
RN Roberts  
TE Roberts  
P Stenerson

**Clinical Lecturers**  
B Marynowski  
ML Myles

**Professors Emeriti**  
MH Brooke  
G Monckton

**Adjunct Professor**  
SA Warren

**Pulmonary Medicine**

**Director and Professor**  
SFP Man

**Professors**  
AD Befus  
\*NN Finer  
\*TL Guidotti  
RL Jones  
M King  
I Mayers  
R Moqbel

**Associate Professors**  
\*NE Brown  
W Chin  
\*PA Hessel  
DC Lien  
R Long  
GC Man

**Assistant Professors**  
\*JA Crockett  
\*M Duszyk  
A Liu  
LS Melenka  
EYL Wong

**Clinical Professors**  
NRT Gibney  
TK Lee  
GF MacDonald

**Associate Clinical Professors**  
JS Archibald  
WJ Dickout  
MK Heule  
S Marchushamer  
EJ Nobert  
DE Stollery

**Assistant Clinical Professors**  
LS Melenka  
JA Shustack

**Adjunct Professor**  
DA Enarson

**Professors Emeriti**  
FA Herbert  
BJ Sproule

**Rheumatology**

**Director and Professor**  
AS Russell

**Professor**  
P Davis

**Associate Professors**  
SL Aaron  
WP Maksymowycz

**Assistant Professor**  
\*M Suarez-Almazor

**Clinical Professor**  
AA Fitzgerald

**Associate Clinical Professors**  
SA LeClercq  
KJ Skeith

**Assistant Clinical Professors**  
PL Chiu  
JE Homik

**Clinical Lecturer**  
A Yan

**Professor Emeritus**  
JS Percy

**Obstetrics and Gynaecology**

**Chair and Professor**  
BF Mitchell

**Professors**  
DC Cumming  
NN Demianczuk  
\*LH Honore  
DM Olson  
\*M Radomski  
JZ Scott

**Associate Professors**  
VA Capstick  
NB Okun  
M Sagle  
A Schepansky

**Assistant Professors**  
R Chari  
ST Davidge  
CG Flood  
\*V Harber

**Clinical Professors**  
JJ Boulton  
JJ Boyd  
LG Evenson  
CF Hoskins  
J Marko  
IV Tataryn

**Associate Clinical Professors**  
CES Burnett  
CP Fung  
SJ Genuis  
SR Langton  
M Lieberman  
J Sabourin  
SN Schuurmans  
TN Traff

**Assistant Clinical Professors**  
GL Black  
RC Black  
M Bow  
R Chua  
TFX Corbett  
TP Gleason  
S Gross  
DJ Hodges  
G Iwanuk  
A Lee  
MS Mah  
P Verma

**Clinical Lecturers**  
RJ Brown  
MJO Coe  
P Lessard  
C Linton  
JM McCubbin  
SJ Reid  
K Seethram  
J Tankel  
F Tsui  
T Unger  
WR Young

**Professors Emeriti**  
RP Beck  
DL Dunlop

**Oncology**

**Chair and Professor**  
CE Cass

**Experimental Oncology**

**Director and Professor**  
D Murray

**Professors**  
\*TM Allen  
\*AR Belch  
CE Cass  
\*PA Gordon  
\*AJB McEwan  
D Murray  
LM Pilarski  
ARE Shaw  
\*L Wiebe  
\*PM Venner

**Associate Professors**  
\*V Baracos  
\*RW Coupland  
AJ Franko  
\*PE Grundy  
\*WP Gati  
R Godbout  
\*JC Hugh  
\*A Janowska-Wieczorek

WA McBlain  
\*MB Parliament  
CA Spencer  
MJ Turner  
M Weinfeld

**Assistant Professors**  
RA Britten  
\*MJ Hendzel  
\*JR Mackey  
\*RB Moore  
\*WH Roa

**Lecturer**  
R Mirzayans

**Adjunct Professors**  
RS Day  
GG Miller

**Professor Emeritus**  
\*ARP Paterson

**Faculty Service Officer**  
X Sun

**Medical Oncology**

**Director and Professor**  
AR Belch

**Professors**  
\*JJ Akabutu  
\*ALA Fields  
\*DW Morrish  
\*AR Turner  
\*PM Venner

**Associate Professors**  
\*K Courneya  
\*PE Grundy  
\*A Janowska-Wieczorek  
\*LM Larratt  
JM Nabholz  
MC Palmer

**Assistant Professors**  
H Au  
\*SJ Desai  
JR Mackey  
M Smylie

**Adjunct Professor**  
GD MacLean  
KS Tonkin

**Assistant Clinical Professor**  
CH Butts

**Medical Physics**

**Director and Associate Professor**  
HR Hooper

**Associate Professor**  
RS Sloboda

**Assistant Professor**  
DM Robinson

**Associate Clinical Professor**  
SL Connors

**Assistant Clinical Professors**  
GC Field  
B Murray

**Palliative Care Medicine**

**Director and Professor**  
ED Bruera

**Associate Professors**  
CE Cumming  
RL Fainsinger  
MD Handman

**Assistant Professors**  
CP Jenkins  
JL Pereira  
AW Taube  
SM Watanabe

**Assistant Clinical Professors**  
J Danielson  
M Hundleby  
RA Sela

**Adjunct Professor**  
C Ripamonti  
Research Associates  
P Lawlor  
C Nekolaichuk  
PW Walker

**Research Associates**  
P Lawlor  
C Nekolaichuk  
PW Walker

**Radiation Oncology**

**Director and Associate Professor**  
RG Pearcey

**Professors**  
AW Lees  
\*AJB McEwan  
AAE Starreveld

**Associate Professors**  
\*DS Fulton  
N Jha  
BE Krause  
DG McGowan  
MB Parliament  
JE Pedersen

**Assistant Professor**  
WH Roa

**Associate Clinical Professors**  
\*Z Catz  
\*RN Ludwig  
\*TJ Terry

**Assistant Clinical Professors**  
\*I Birchall  
GS Dundas  
\*S Halls  
TS Nijjar  
\*TJ Terry

**Professor Emeritus**  
RC Urtrason

**Surgical Oncology**

**Acting Director and Associate Professor**  
\*CJ deGara

**Professors**  
\*N Kneteman  
\*OG Thurston

**Associate Professors**  
\*VA Capstick  
\*A Schepansky

**Assistant Professor**  
\*RB Moore

**Clinical Professor**  
\*JDS McKeane

**Associate Clinical Professor**  
\*EE Wiens

**Assistant Clinical Professors**  
\*GJ Lavoie  
\*C McNamee

**Ophthalmology**

**Chair and Professor**  
IM MacDonald

**Associate Professors**  
GT Drummond  
MA Walter

**Clinical Professors**  
RA Morgan  
KH Shutt

**Associate Clinical Professors**  
J Buski  
EJ Hodges  
FL Leong-Sit  
RLC Johnson

**Assistant Clinical Professors**  
RJ Casey  
D Climenhaga  
H Climenhaga

D Cote  
JJ Foy  
KR Hennig  
B Hinz  
M Greve  
M Kutzner  
J Leong-Sit  
JR Lewis  
A Macdonald  
ME Phillips  
EJ Rudnisky  
LM Uniat

**Clinical Lecturers**  
M Scambler  
LF Smith

**Professors Emeriti**  
WG Pearce  
HT Wyatt

## Oral Health Sciences

**Associate Dean and Chair**  
GW Raborn

**Professors**  
CG Baker  
GA Deane  
RE Donnelly  
FM Eggert  
HE ElBadrawy  
KH Gibb  
KE Glover  
LW Kline  
PW Major  
WT McGaw  
NC Milos  
ZM Pawliuk  
JFL Pimlott  
KM Polukoshko  
PD Schuller  
DA Scott  
PG Scott  
JA Theodore

**Associate Professors**  
A Kaburda  
I Kuc  
E Lam  
DJ Pehowich  
E Peters  
JN Pochynok  
HK Tan

**Assistant Professors**  
C Ash  
E Edgington

**Clinical Professors**  
DPK Cheung  
M Grace  
RD Haryett  
CE Hawrith  
BL Kuzyk  
JM Plecash  
HL Samuels  
EW Tunis  
J Woronuk  
DC Yu

**Clinical Associate Professors**  
BS Bennett  
N Chalk  
LC Chan  
A Eastwood  
CK Fialko-Eshenko  
B Gitzel  
D Gotaas  
KL Hesse  
BG Kindrachuk  
E Krause  
R Labahn  
VP Lee  
BA Linke  
DJ MacDougall  
C MacDonald  
WR Mather  
E McIntyre  
H McLeod

ME Mickleborough  
LR Moore  
B Nebbe  
SK Patterson  
PL Pierce  
W Preshing  
J Ritchie  
EC Robinson  
P Schulte  
JA Scott  
W Smith  
A Sneazwell  
TR Stevenson  
MT Taciuk  
RL Tegart  
M Wilson  
KW Wong  
CC Yu

**Clinical Assistant Professors**

DH Bédard  
L Best  
C Botchway  
AH Brouwer  
EA Burgess  
H Campbell  
CG Caruk  
S Cobban  
R Cox  
J Croutze  
RRA Croutze  
M Diab  
J Doberstein  
W Dobrovolsky  
R Eamer  
R Easton  
P Gainer  
DBC Hayashi  
M Howell  
H Janke  
G Jansen  
D Kelner  
R Kreutz  
E Kucey  
EWL Kwan  
S Lockwood  
J Lockau  
K Lung  
W MacKinnon  
J Mergaert  
L Mowat  
U Nassar  
BR Neumann  
W Primrose  
M Prosperi-Porta  
CJ Revell  
W Smith  
L Sterns  
WG Wesner  
AO Wong  
P Wooding  
PKC Yeung  
HC Yu  
GB Zenith

**Clinical Instructors**  
S Abraham-Limneos  
A Azarko  
K Bapoo-Mohamed  
T Bone  
J Borrelli  
E Burgess  
G Burke  
D Chow  
J Dalmer  
D Eliuk  
A Fyith  
L Goertz  
G Grykuliak  
KS Habib  
AKK Hoh  
KP Isbister  
N Jinnah  
L Julé  
M Kaiser  
A Klassen  
M Kun  
M Lall

SSS Lau  
T Lau  
K Lim  
J Mack  
I Mah  
C Martin-Neumeyer  
S Mitchell  
C Neufeld  
H Nguyen  
J Pan  
J Paphangkorakit  
C Patrickson  
R Schafers  
U Szkudlarek  
A Tam  
J Thomas  
C Tuazon  
GP Wendell  
J White  
EM Whitney  
D Wong

**Lecturer**  
V Stanic

**Professors Emeriti**  
BK Arora  
RV Blackmore  
DM Collinson  
HM Dick  
AD Fee  
WT Harley  
PD MacRae  
RC McClelland  
KA McMurchy  
WC Meyer  
GW Meyers  
CJ Osadetz  
JW Osborn  
DM Paton  
CH Pearson  
JM Plecash  
AJ Simons  
WJ Simpson  
GH Sperber  
NR Thomas  
GW Thompson

## Paediatrics

**Acting Chair and Professor**  
F Harley

**Professors**  
JJ Akabutu  
RL Collins-Nakai  
\*DW Cox  
P Etches  
EW Gauk  
FL Harley  
AB Jones  
GD Lopaschuk  
PM Olley  
\*DM Olson  
HF Pabst  
CMT Robertson

**Associate Professors**  
C Baxter  
B Bell  
RM Couch  
JE Ellsworth  
KJ Goulden  
\*M Michalak  
I Rebeyka  
A Rouget  
LJ Smith  
DW Spady  
W Vaudry

**Assistant Professors**  
D Andrews  
S Gilmour  
R Girgis  
M Gowrishankar  
M Kantoch  
S Lappa  
R Lehner  
J Robinson  
R Schulz

BD Sinclair  
V Yiu

## Clinical Professors

DJ Hasinoff  
RR Moriarty  
\*PA Penkoske  
J Popowich  
AR Stewart  
MI Tedeschini  
OA Ulan  
JE Van Aerde  
MJ Watt

## Associate Clinical Professors

R Anderson  
G Andrew  
P Byrne  
I Doka  
J Dyck  
S Galante  
K Lee  
\*GM Lees  
F Martin  
TJ Paton  
PM Pierse  
EM Rabinovitch  
HR Rajani  
JS Tkachyk  
\*JR Waters  
KS Wong  
PC Zuberbuhler

## Assistant Clinical Professors

A Ausford  
L Baydala  
D Berry  
M Bhambhani  
I Buka  
LM Casey  
R Chen  
AM Darwish  
LJ Dibden  
NA Dower  
W Doyle-Chan  
EW Harris  
K Horne  
A Janicka  
A Joffie  
C Kyriakides  
S Lappa  
RP Lemke  
I Lolliton  
JE Lopatka  
C Majaesk  
BA Malinowski  
LF McGonigle  
AN Mian  
\*JC Mullen  
A Murdoch  
H Osiovič  
VM Osundwa  
S Parsons  
E Phillipos  
ML Ramji  
D Roseman  
E Schuster  
AI Singh  
G Sukhrani  
WA Szymanski  
J Teoh  
J Tybkhani  
B Wilson  
JT Woods

## Professors Emeriti

GJ Conradi  
NF Duncan  
J Godel  
\*LC Grisdale  
EE McCoy  
D Schiff  
WC Taylor

**Administrative Officer**  
G Langer

**Adjunct Professors**  
K Horne  
RA Lang  
WM Wenman

## Haematology and Oncology

**Director and Associate Professor**  
B Bell

**Professor**  
JJ Akabutu

**Assistant Professors**  
\*SJ Desai  
PE Grundy  
BA Wilson

## Infectious Diseases

**Director and Associate Professor**  
W Vaudry

**Professor**  
RPB Larke

**Assistant Professor**  
JL Robinson

## Neonatology

**Director and Associate Clinical Professor**  
P Byrne

**Professors**  
PC Etches  
JE Van Aerde

**Associate Professor**  
A Peliowski

**Assistant Professor**  
EZ Phillipos

## Paediatric Cardiology

**Director and Associate Professor**  
JD Dyck

**Professors**  
RL Collins-Nakai  
PM Olley

**Associate Professor**  
JY Coe

**Assistant Professors**  
M Kantoch  
MA Robertson

**Associate Clinical Professor**  
\*PA Penkoske

**Professor Emeritus**  
NF Duncan

## Paediatric Intensive Care

**Director and Associate Clinical Professor**  
A Conradi

**Associate Clinical Professor**  
A deCaen

**Assistant Clinical Professor**  
A Joffe

## Pharmacology

**Chair and Professor**  
AS Clanachan

**Professors**  
TM Allen  
\*GB Baker  
DA Cook  
WF Dryden  
SMJ Dunn  
T Gordon  
\*GD Lopaschuk  
MW Radomski  
PA Smith

**Associate Professors**  
AN Bateson  
WF Colmers  
WP Gati  
AAC Yeung

**Assistant Professors**  
BA Bielkiewicz-Vollrath  
R Schulz  
AMW Tse  
FWY Tse

**Professors Emeriti**  
GB Frank  
ARP Paterson

**Faculty Service Officer**  
EG Hunter

**Administrative Officer**  
JC Deuel

**Adjunct Professor**  
IL Martin

## Physiology

**Chair and Professor**  
EJ Sanders

**Professors**  
\*SI Archer  
CI Cheeseman  
S Harvey  
AKC Ho  
SE Jacobs  
\*LW Kline  
\*RZ Lewanczuk  
\*DM Olson  
KG Pearson  
A Prochazka  
RB Stein  
JD Young

**Associate Professors**  
SC Barton  
CG Benishin  
E Karpinski

**Assistant Professors**  
JR Casey  
\*ST Davidge  
\*M Duszyk  
JJ Greer  
\*TJ Kieffer  
\*RZ Lewanczuk  
PV Nguyen

**Professors Emeriti**  
KJ Hutchison  
PKT Pang  
M Schachter

**Administrative Officer**  
OM Findlay

**Adjunct Professor**  
\*RL Jones

## Psychiatry

**Chair and Professor**  
RC Bland

**Honorary Professor**  
EI Picard

**Professors**  
GB Baker  
AJ Greenshaw  
BK Sinha

**Associate Professors**  
JH Brooks  
GG Griener  
GS Hnatko  
AS Joyce  
J Metelitsa  
SC Newman  
PH Silverstone

**Assistant Professors**  
NJ Coupland  
J LeMellédo

**Lecturer**  
PG Tibbo

**Clinical Professors**  
M Blackman  
CA Blashko  
KM Collinson

P Flor-Henry  
KD Gendemann  
A Gordon  
DW Grover  
RE Hibbard  
S Levin  
S O'Kelly  
HM Piktel  
JS Rosie  
PM Segal  
B Sowa  
PF Steinberg  
BF Turner  
LB Warneke  
HM Wojcicki

**Associate Clinical Professors**  
LM Adams  
JL Banasch  
HM Barker  
JE Beach  
AB Bremness  
AM Carroll  
PE Copus  
NP Costigan  
RJ Dyck  
J Eustace  
DR Guinhawa  
CA Hapchyn  
L Kagan  
E Lobo  
M McCallum  
KF McKenna  
P Mills  
BR Mirtle  
JW Osinchuk  
L Pawluk  
BS Sanderman  
TJ Snyder  
L Studer  
PJ White  
CM Yaltho

**Assistant Clinical Professors**  
B Bishop  
O Cadsky  
P Carr  
C Carter  
WT Chimich  
P Chokka  
PS Chue  
MG Cummins  
JM Dewart  
S Dobrofsky  
R Drebit  
DJ Gill  
DR Ginter  
RA Gurke  
L Lawless  
JB Lefsrud  
RC Lundeen  
R Maitra  
S Matthews  
WA McCay  
DW Meakins  
S Monga  
F O'Croinin  
WF Otto  
MB Parsons  
SE Purdon  
JK Rodgers  
EM Schwab  
JR Scott  
D Shih  
MCJ Swanson  
RP Taubner  
L Trichard  
M Tweddle  
DYW Wong

**Clinical Lecturers**  
J Acton  
A Anand  
D Block  
S Bowman  
J Carr  
J Caryk  
J Chu  
A Dawrant

M Demas  
R Dempsey  
SC Duncan  
FM Fogarty  
N Hanon  
A Holt  
ND John  
V Jordan  
KL Kirdeikis  
K Lefko-Singh  
AW McIntyre  
E McKaigney  
S Mitchell  
C Morhalick  
SP Nigam  
J O'Mahoney  
C Phillips  
L Phillips  
L Schuster  
Y Shapiro  
V Singh  
L Smit  
DL Spaner  
D Spence  
L Urichuk  
J Ustina

**Professors Emeriti**  
RT Coutts  
WG Dewhurst  
P Hays  
G Hopkinson  
JW Urschel  
TE Weckowicz  
KA Yonge

**Administrative Officer**  
LC Hein

**Adjunct Professors**  
A Bateson  
M Bourin  
AB Douglass  
N el-Guebaly  
\*H Jacobs  
I Kiss  
WE Piper  
I Singh  
E Starreveld  
AH Thompson  
GD Watson  
AF Wilson  
NJ Witt

**Public Health Sciences**

**Chair and Professor**  
TW Noseworthy

**Professors**  
KS Bay  
D Hailey  
CB Hazlett  
SE Hrudehy  
P Jacobs  
LM Laing  
D Menon  
DL Saunders  
CL Soskolne  
\*M Stewart  
DR Wilson

**Associate Professors**  
J Cheng  
PR Hatcher  
RS Hayward  
PA Hessel  
WE Kipp  
\*SC Newman  
AM Penn  
\*RH Plain  
L Shanner  
M Suarez-Almazor  
A Thompson

**Assistant Professors**  
J Church  
L Francescutti  
K Froese  
G Jhangri

DJ Kutsogiannis  
XC Le  
KV Rondeau  
OH Triska  
DC Voaklander  
TC Wild

**Clinical Professor**  
JM Howell

**Lecturers**  
K Fassbender  
EW Hall  
J Vincenten

**Professors Emeriti**  
CM Meilicke  
TA McPherson  
SM Stinson

**Adjunct Professors**  
D Andriashek  
DA Birkholz  
L Breault  
H Buchwald  
KC Carriere  
T Chowdhury  
J Cowell  
S Demeter  
E Ellehoj  
L Derry  
K Farris  
SM Fincham  
N Fok  
S Gabos  
GW Gibbs  
N Gibson  
A Goldblatt  
M Gormley  
GC Granville  
TL Guidotti  
U Hakkinem  
J Hatcher  
H Hoffman  
D Jirsch  
D Johnson  
C Karpilow  
D Kopetsky  
PD Langelle  
F Lau  
P Lightfoot  
RC May  
D Mewhort  
KR Nickerson  
J O'Laney  
S Optenberg  
J Pawlyshyn  
E Pekeles  
M Perkurinen  
DJ Philippon  
P Piersie  
G Predy  
L Redfern  
RE Rogers  
D Schopflocher  
M Serediak  
C Shields  
CB Spooner  
L Svensen  
C Orion  
M Wanke  
SC Weatherill  
R Wensel  
D Wilson  
R Wolfe  
K Wong  
W Yacoub  
K Yu

**Radiology and Diagnostic Imaging**

**Diagnostic Radiology**

**Chair and Professor**  
AJB McEwan

**Professor**  
DB Russell

**Associate Professor**  
SA Jackson

**Assistant Professors**  
LJ Filipow  
RGW Lambert  
JR Mercer

**Lecturer**  
BH Long

**Clinical Professors**  
G Andrew  
JDR Miller

**Associate Clinical Professors**  
RA Ashforth  
R Arnold  
G Askew  
I Birchall  
RC Hennig  
PG Heslip  
MK Hirji  
MA Johnson  
RN Ludwig  
CG Maguire  
H Phillips  
D Reich  
WL Ritchie  
MT Sin  
TJ Terry  
GP Trepianier  
DB Vickar  
RS Warshawski

**Assistant Clinical Professors**  
TE Ackerman  
S Adams  
TW Alexander  
WW Anderson  
M Babiuik  
J Barrie  
W Berezowski  
R Bhargava  
B Caplan  
RHK Chan  
K Cheung  
D Emery  
D Foster  
BD Guspie  
S Halls  
R Holub  
ME Hoskinson  
M Hutson  
WG Keenan  
G Lauf  
M Mah  
KF O'Kelly  
M O'Keeffe  
E Parkinson  
EJ Preville  
KN Puznak  
J Reid  
R Sherlock  
WB Short  
TC Spiers  
GD Sterling  
JF Swersky  
AS Tang  
JGE Turner

**Clinical Lecturers**  
CM Copeland  
CG Elias  
H Jen  
N Horeczko  
P Hyde  
S Kitay  
LM Kowand  
K Kristjanson  
NE Maslo  
EC McMartin  
M Noga  
L Paskar  
DA Shamchuk  
C Torbiak

**Nuclear Medicine**

**Director and Assistant Clinical Professor**  
CG Maguire

**Associate Professor**  
\*DP Humen

**Assistant Professor**  
AV Joshua  
JR Scott

**Associate Clinical Professor**  
RS Warshowski

**Surgery**

**Chair and Professor**  
SM Hamilton

**Administrative Officer**  
TM VandenBroek

**Office of Surgical Education**  
D Madu

**Cardiothoracic Surgery**

**Director and Clinical Professor**  
A Koshal

**Professor**  
\*R Yatscoff

**Associate Professor**  
\*W Chin

**Clinical Professors**  
ET Gelfand  
PA Penkoske

**Associate Clinical Professors**  
DL Modry  
JC Mullen  
SS Nakai  
IM Rebeyka

**Assistant Clinical Professors**  
AJ Graham  
\*CR Guenther  
CJ McNamee

**Professor Emeritus**  
JC Callaghan

**General Surgery**

**Director and Associate Professor**  
CJ de Gara

**Professors**  
KL Bowes  
SM Hamilton  
NM Kneteman  
GL Warnock

**Associate Professor**  
CJ de Gara

**Assistant Professors**  
S Issa  
AMJ Shapiro

**Clinical Professors**  
JE Anselmo  
RE Fraser  
RA Hallgren  
DW Jirsch  
S Kilam

**Associate Clinical Professors**  
DO Adams  
PD Davey  
MG Evans  
RM Hackett  
BW Johnson  
GM Lees  
WJ Mackie  
JF Mossey  
AW Procyshyn  
HL Stewart  
WM Struck  
MH van Wijngaarden

**Assistant Clinical Professors**  
HR Chyczij  
MH Friedman  
JD Matheson  
MA Meier

EK Schmidt  
AF Trautman

**Clinical Lecturers**  
D Callahan  
KD Dabbs  
KE Goh  
O Heisler  
A Prakash  
RG Turnbull

**Professors Emeriti**  
WS Anderson  
S Kling  
RAL Macbeth  
GW Scott  
OG Thurston  
HTG Williams  
WW Yakimets

**Neurosurgery**

**Director and Associate Clinical Professor**  
JM Findlay

**Professor**  
\*J Tulip

**Clinical Professors**  
PBR Allen  
JDS McKeen  
KC Petruk

**Associate Clinical Professor**  
KE Aronyk

**Assistant Clinical Professors**  
RW Broad  
WJ O'Callaghan  
DE Steinke

**Clinical Lecturer**  
RJ Fox

**Professor Emeritus**  
BK Weir

**Orthopaedic Surgery**

**Director and Clinical Professor**  
MJ Moreau

**Professors**  
\*KM Bagnall  
DC Reid

**Clinical Professors**  
RM Glasgow  
DWC Johnston

**Associate Clinical Professors**  
JG Cinats  
JK Mahood  
JB McLvor  
WM Riggall  
GG Russell

**Assistant Clinical Professors**  
GD Arnett  
RA Balyk  
D Dick  
TH Greidanus  
LE Hunka  
KW James  
FB Kortbeek  
GJ Lavoie  
MV Lavoie  
PMK Leung  
DJ Makar  
JF McMillan  
GJ O'Connor  
KJ Russell

**Clinical Lecturers**  
NM Jomha  
DD Otto  
DW Weber

**Research Associates**  
D Hill  
V Raso

**Adjunct Professor**  
LA Davis

**Otolaryngology**

**Director and Clinical Professor**  
DJ Oldring

**Clinical Professors**  
CS Carter  
WH Kudryk

**Assistant Clinical Professors**  
JC DiToppa  
CA Elliott  
JD Keohane

**Clinical Lecturers**  
OM Bykowski  
LT Diduch  
JA Kostiuik  
H Seikaly

**Plastic Surgery**

**Director and Clinical Professor**  
GW Lobay

**Professor**  
\*LE McGann

**Associate Professors**  
A Ghahary  
EE Tredget

**Clinical Professors**  
GL Moysa  
GH Wilkes

**Assistant Clinical Professors**  
DD Campbell  
MJ Guffre  
T Hayashi

**Clinical Lecturers**  
DC Edwards  
G Louie

**Professor Emeritus**  
JDM Alton

**Surgical Research**

**Director and Professor**  
GL Warnock

**Professors**  
RV Rajotte  
JC Russell  
\*R Yatscoff

**Professors Emeriti**  
KP Kowalewski  
DC Secord

**Research Assistant**  
LF Zhu

**Assistant Professors**  
TA Churchill  
G Korbitt  
JRT Lakey

**Adjunct Professors**  
MP Mintchev  
\*PG Scott

**Urological Surgery**

**Director and Associate Clinical Professor**  
MP Chetner

**Professor**  
\*JW Lown

**Associate Professor**  
GT Todd

**Assistant Professor**  
RB Moore

**Associate Clinical Professors**  
DR Mador  
JB Metcalfe

**Assistant Clinical Professors**  
RP Abele  
B Bochinski  
EP Estey

LW Mix  
SM Robinson

**Clinical Lecturers**  
MJ Allard  
TA Wollin

**Professors Emeriti**  
WH Lakey  
MS McPhee  
JO Metcalfe

**Faculty Divisions****Bioethics**

**Co-Directors and Professors**  
V Bergum  
P Byrne

**Professors**  
\*V Bergum  
\*P Byrne  
\*JM Howell  
\*TW Noseworthy  
\*GB Robertson  
\*JC Ross-Kerr  
\*D Schiff

**Associate Professors**  
\*G Griener  
\*L Shanner

**Assistant Professor**  
\*DM Wilson

**Adjunct Professors**  
RC Fraser  
NJ Inions  
H Lantz  
P Marck  
DL Smith

**Professor Emeritus**  
JB Dossator (Chair in Bioethics)

**Continuing Medical Education**

**Director and Professor**  
P Davis

**Assistant Directors**  
SE Low  
KJ Skeith

**Critical Care Medicine**

**Director and Associate Clinical Professor**  
RG Johnston

**Professors**  
\*SM Hamilton  
\*I Mayers  
\*T Noseworthy

**Associate Professors**  
\*P Byrne  
\*PC Etches  
\*NRT Gibney  
\*A Peliowski  
\*P Penkoske  
\*EE Tredget

**Assistant Professors**  
\*A deCaen  
\*MK Heule  
\*M vanWijngaarden  
\*DJ Kutsogiannis

**Associate Clinical Professors**  
\*A Conradi  
\*DL Modry

**Assistant Clinical Professors**  
\*W Chin  
\*CR Guenther  
\*S Marcushamer  
\*M Meier  
\*J Mullen  
\*W Murtha  
\*DE Stollery

**Clinical Lecturers**  
\*D Callahan  
\*D Matheson

**Emergency Medicine**

**Director and Associate Professor**  
BR Holroyd

**Associate Professor**  
M Bullard  
GE Cummings  
B Rowe  
IP Steiner

**Assistant Professor**  
\*L Francescutti

**Associate Clinical Professors**  
MA Cherniwchan  
DL Shragge  
TD Sosnowski

**Assistant Clinical Professors**  
D Bond  
HA Borkent  
MJ Boulanger  
JJ Brown  
R Cunningham  
R Lee  
D Mackey  
\*LF McGonigle  
C Neal  
SA Poplawski  
WR Patton  
DC Perry  
JC Taylor  
AF Walker

**Adjunct Associate Clinical Professor**  
I Vicas

**Clinical Lecturers**  
BL Abel

M Atrens-Sharko  
D Barer  
B Brown  
CG Campbell  
K Cromwell  
R Daloise  
JMB Davidson  
B Deane  
GM Emerson  
CGM Evans  
S Flanagan  
K Foster  
J Franc-Law  
GAJ Groot  
R Hansen  
D Hoshizaki  
D Hryciuk  
P Jain  
S Jones  
R Kruhlik  
M Long  
K Mangan  
J McKague  
J Mohler  
W Molberg  
M Moss  
AR Murray  
DW Neilson  
K Neilson  
D Nixon  
T Noga  
G Phillips  
RA Purser  
P Rawlek  
D Reid  
S Ross  
G Scheirer  
R Scheirer  
W Sevik  
L Shenfield  
R Sherman  
L Sim  
TP Stetsko  
DF Stewart

A Ushko  
C Westover  
R Yao  
A Yeung  
M Young  
PW Yoon

**Health Sciences Laboratory Animal Services**

**Acting Director and Faculty Service Officer**  
PN Nation

**Faculty Service Officer**  
TF Bayans

**Neuroscience**

**Acting Director and Professor**  
\*WF Dryden

**Professors**  
\*BJ Andrews  
\*GB Baker  
\*MH Brooke  
\*RB Campenot  
\*SMJ Dunn  
\*T Gordon  
\*AJ Greenshaw  
\*MM Hodge  
\*JH Jhmanalos  
\*TL Krukoff  
\*S Kumar  
\*KG Pearson  
\*RE Peter  
\*WD Pierce  
\*A Prochazka  
\*A Shuaib  
\*PA Smith  
\*RB Stein  
\*D Wahlsten

**Associate Professors**  
\*AN Bateson  
\*WF Colmers  
\*JI Goldberg  
\*NC Milos

**Assistant Professors**  
\*D Bennett  
\*L Buchanan  
\*R Cabeza  
\*JJ Greer  
\*C Hao  
\*A Kingstone  
\*A Kostov  
\*P Nguyen  
\*M Parent  
\*D Treit  
\*A Tse  
\*F Tse  
\*D Wong-Wylie  
\*J Yang  
\*P Zehr

**Clinical Professor**  
\*JDR Miller

**Associate Clinical Professor**  
\*KC Petruk

**Adjunct Professors**  
\*CHM Beck  
\*AR Dobbs  
\*JC Lind  
\*BK Mitchell  
\*AH Putnam Rochet  
\*I Singh

**Physical Medicine and Rehabilitation Medicine**

**Director and Associate Professor**  
DJ Carroll

**Clinical Professor**  
M Watt

**Associate Professors**  
LA Bellamy  
RS Burnham

**Assistant Professors**  
M Chan  
L Sutkanan

**Associate Clinical Professors**  
LE Gross  
JM Nagy  
LCE Trachsel  
\*M Watt

**Assistant Clinical Professors**  
M DiPersio  
JB Guthrie  
E Veszpremi

**Clinical Lecturer**  
E Sampson

**Adjunct Professors**  
\*BJ Andrews  
\*RB Stein

**Studies in Medical Education/Media Services**

**Director and Professor**  
\*DA Cook

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

**Professor**  
EN Skakun

**Educational Associates**

\*FR Brenneis (Family Medicine)  
\*DN Brindley (Biochemistry)  
\*NE Brown (Medicine)  
\*VA Capstick (Obstetrics and Gynecology)  
\*CI Cheeseman (Associate Dean, UGME, Physiology)  
\*J Crockett (Medicine)  
\*P Davis (Associate Dean, Continuing Education, Medicine—Rheumatology)  
\*MG Donoff (Family Medicine)  
\*JE Ellsworth (Paediatrics)  
\*BW Fisher (Medicine—General Internal Medicine)  
\*G Goldsand (Associate Dean—PGME—Infectious Diseases)  
\*C Harley (Medicine)  
EG Hunter (Pharmacology)  
\*N Kassam (Medicine)  
\*PJ Klema (Family Medicine)  
NJ Leonard (Genetics)  
L Miedzinski (Infectious Diseases)  
\*ME Palmer (Assistant Dean—Clinical Education Oncology)  
\*W Patton (Emergency Medicine)  
\*DC Rayner (Laboratory Medicine and Pathology)  
\*B Roed (University Teaching Services)

\*DW Spady (Paediatrics)  
\*BR Stevenson (Assistant Dean—Student Affairs, Cell Biology and Anatomy)  
\*AR Turner (Medicine—Clinical Hematology)  
\*DLJ Tyrrell (Dean of Medicine, Medical Microbiology and Immunology)  
\*AH Walji (Cell Biology and Anatomy)

**Research Associates**

\*D Blackmore (Medicine Council of Canada)  
\*R Muzyka (Technological Consultant)  
\*GL Warnock (Surgery)  
\*G Zeschuk (Technological Consultant)

**Professor Emeritus**  
\*TO Maguire

**Surgical Medical Research Institute**

**Director and Professor**  
\*RV Rajotte

**Additional Members of Faculty Council**

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

**Representatives**

J Buckingham (Medical Librarian)  
RA Burns (Alberta Medical Association)  
Doctor of Medicine student representatives (8)  
ALA Fields (Cross Cancer Institute)  
J Goldberg (Faculty of Science)  
Medical Laboratory Science student representatives (2)  
RE Moskalyk (Dean of Pharmacy and Pharmaceutical Sciences)  
LR Olhauser (Registrar, College of Physicians and Surgeons)  
RS Smith (Vice-President Research and External Affairs)  
MW Spence (Alberta Heritage Foundation for Medical Research)  
J-M Turc (Alberta Cancer Board)  
MJ Wood (Dean of Nursing)  
**Registrar of the University**  
BJ Silzer, Med



## 92 General Information

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 1923, a full program of clinical instruction began, and the first Doctor of Medicine (MD) degrees were awarded in 1925.

Dental 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 1996, 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 Honors 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 Honors 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.
- (9) An extensive program of continuing medical education for physicians practising in northern Alberta.

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 BSc 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 two-year program leading to the Diploma in Dental Hygiene. A preprofessional year is required before admission to this program.
- (4) MSc and PhD degrees in Medical Sciences (Oral Health Sciences).
- (5) An MSc Degree and Certificate in Orthodontics.
- (6) Continuing Education courses are offered by the Department of Oral Health Sciences from time to time to provide continuing education for the dental profession. A program outlining dates, course descriptions, participation, and length is prepared annually and distributed to members of the profession.

## 92.1 Department of Oral Health Sciences 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.

## 92.2 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 Hospital and Health Centres 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 Oral Health Sciences), 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 three APCRU research themes are (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.

## 92.3 Registration and Licensing

### 92.3.1 DDS Degree

The Department of Oral Health Sciences of the University is accredited by the Canadian Dental Association and thereby recognized by the American Dental Association Council of Accreditation.

Graduates in dentistry from the University may register in Alberta on payment of a licensing fee without further examination.

Regulations regarding the practice of dentistry in any other province in Canada may be obtained by writing to the dental registrar of that province:

#### Alberta

Alberta Dental Association  
#101, 8230-105 Street  
Edmonton, Alberta T6E 5H9

#### British Columbia

College of Dental Surgeons of British Columbia  
1125 West 8 Avenue  
Vancouver, British Columbia V6H 3N4

#### Manitoba

Manitoba Dental Association  
308 Kennedy Street  
Winnipeg, Manitoba R3B 2M6

#### New Brunswick

New Brunswick Dental Society  
440 Champlain Street  
Saint John West, New Brunswick E2M 1R9

#### Newfoundland

Newfoundland Dental Association  
203 LeMarchant Road  
St John's, Newfoundland A1C 2H5

#### Nova Scotia

Nova Scotia Dental Association  
#12, 5880 Spring Garden Road  
Halifax, Nova Scotia B3H 1Y1

#### Ontario

Royal College of Dental Surgeons of Ontario  
230 St George Street  
Toronto, Ontario M5R 2N5

#### Prince Edward Island

Dental Association of Prince Edward Island  
239 Water Street  
Summerside, Prince Edward Island C1N 1B4

#### Quebec

Order of Dentists of Quebec  
Ste 303, 801 est rue Sherbrooke  
Montreal, Quebec H2L 1K7

#### Saskatchewan

College of Dental Surgeons of Saskatchewan  
#109, 514-23 Street East  
Saskatoon, Saskatchewan S7K 0J8

Senior students of approved dental schools must write the National Dental Examining Board examinations during their final year. Successful completion of these examinations is required for licensure.

Graduates 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

A diploma from the dental hygiene program 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 as listed below:

#### Alberta

Alberta Dental Hygienists Association  
#222, 8567-51 Avenue  
Edmonton, Alberta T6E 6A8

#### British Columbia

Registrar, College of Dental Hygienists of British Columbia  
Ste 219 Yarrow Building  
645 Fort Street  
Victoria, British Columbia V8W 1G2

#### Manitoba

Registrar, Manitoba Dental Association  
308 Kennedy Street  
Winnipeg, Manitoba R3B 2M6

#### New Brunswick

Registrar,  
College of Dental Surgeons of New Brunswick  
440 Champlain Street  
Saint John, New Brunswick E2M 1R9

#### Newfoundland

Registrar,  
Newfoundland Dental Association  
Campbell Building, 203 LeMarchant Road  
St John's, Newfoundland A1C 2H1

#### Nova Scotia

Registrar,  
Provincial Dental Board of Nova Scotia  
1548 Robie Street  
Halifax, Nova Scotia B3H 3E6

#### Ontario

College of Dental Hygienists of Ontario  
#300, 69 Bloor Street East  
Toronto, Ontario M4W 1A9

**Prince Edward Island**

Registrar,  
Dental Association of Prince Edward Island  
239 Water Street  
Summerside, Prince Edward Island C1N 1C1

**Quebec**

Professional Corporation of Dental Hygiene of Quebec  
#237, 5757 Decelles Street  
Montreal, Quebec H3S 2C3

**Saskatchewan**

Registrar,  
College of Dental Surgeons of Saskatchewan  
#109, 514-23 Street East  
Saskatoon, Saskatchewan S7K 0J8

**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****Estimated Budget for Dental Students**

No student is allowed to purchase a kit without permission of the Department of Oral Health Sciences.

	<b>Year 1</b>	<b>Year 2</b>
Instructional and Noninstructional	\$7,200	\$7,200
Books	1,200	1,100
Dental Kits	8,000	8,300
Dental Students Association	100	100
	<b>Year 3</b>	<b>Year 4</b>
Instructional and Noninstructional	\$7,200	\$5,400
Books	600	400
Dental Kits (Instruments)	900	500
Dental Students Association	100	100
NBDE (American) Examinations	—	70
NDEB (Canadian) Examinations	—	1,665

**92.4.2 Dental Hygiene Diploma****Estimated Budget for Students**

	<b>Year 1</b>	<b>Year 2</b>
Instructional and Noninstructional	\$5,700	\$3,800
Books	900	600
Dental Hygiene Kits	4,700	2,000
Membership Fees	100	100

**Uniforms:** The student is expected to have a lab coat, uniform, white oxfords, safety glasses and/or prescription 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 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 Medical Students' Association (MSA) is the officially recognized organization of medical students. It provides social, informative, and cultural activities for medical students, and sponsors several important community projects. It is authorized to collect a membership fee from each student. The Association provides the following annual awards: the Outstanding Teacher Awards presented to one teacher for excellence as an educator in each year of the program; the Shaner Award presented to a graduating student for exceptional contributions to the work of the Association; the Mackenzie Award presented to a graduating student judged most proficient in clinical skills; and the Fried Award presented to the student intern who has demonstrated exceptional clinical aptitudes in Paediatrics. Some projects sponsored by the MSA and run by medical students are the University of Alberta branch of Shinerama, a program dedicated to raising money for Cystic Fibrosis research; the Courtyard Concert Series, a noon-hour classical concert series (featuring a grand piano donated by the MSA) for University Hospital patients; a medical student choir; and *IATROS*, a student medical journal dedicated to publishing student articles and increasing communication between current students and alumni. Many social activities and sports events are also planned through the year.

The Medical Alumni Association is an organization of all graduates in Medicine from the University of Alberta. The Association takes an active interest in the Faculty and provides a limited loan fund for undergraduate and graduate students. In addition, the Association participates in a number of awards to students and, from time to time, finances specific projects in the Faculty. The Association meets annually in conjunction with the Alberta Medical Association meeting.

The Dental Students' Association (DSA) is registered with the Students' Union Student Groups. The DSA represents all Dentistry and Dental Hygiene students at the University. It is the DSA's responsibility to organize and communicate involvement in a number of activities by students in the Department of Oral Health Sciences. Involvement in activities of a social and professional nature include participation in activities with the greater student body on campus, inter/intra-departmental activities, and community involvement. The DSA fosters professional relations with the greater community through involvement in fund raising for a number of charitable organizations, and by providing resources and information to the community. Annual involvement in health awareness initiatives allows students to provide information and dental products to various groups, including students on campus during Health Awareness Week.

The DSA coordinates a number of formal events welcoming students to their respective professions and encouraging involvement in their professional associations. A number of less formal social events and sporting activities, including the Dentistry-Pharmacy Hockey Challenge, are also scheduled throughout the year. The DSA works with the Faculty to present concerns and facilitate change, and together, provide students the ability to make contributions to create an enjoyable and successful program.

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 Oral Health Sciences 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 §15.9 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 reenters 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, 2J2.11 Walter C Mackenzie Health Sciences Centre.

## 93.2 Academic Standing and Graduation

### 93.2.1 DDS Degree

**Important note:** The DDS and MD programs have been revised effective September 1998. The programs listed in this edition of the University Calendar apply only to those students admitted for September 1998 and beyond. 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 information about their programs of study. However, academic standing and promotion regulations, as published here, apply to all students in the program. 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 §94.4).

(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) Course grades of 3, 2, and 1 are failing grades. A grade of 4 is a conditional pass and permits a student to meet promotion/graduation requirements when

- the student's overall GPA is 5.0 or better;
- the combined course weight in which grades of 4 or less are achieved does not exceed 20% of the total course weight in the program year; and
- satisfactory course standing is approved by the Faculty. Notwithstanding (b) above, the Faculty may deny a student promotion/graduation when grades of 4 are achieved in any preclinical/clinical course and/or when reexaminations are not available.
- When these conditions are not met, credit is denied for courses in which a grade of 4 has been received.

#### (6) Reexaminations

- Students are allowed reexamination privileges only in courses that are failed.
- Reexaminations of courses in Years 1 and 2: The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses.
- Reexaminations of courses in Years 3 and 4: The Faculty of Medicine and Dentistry 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.

- A student repeating a year is not allowed reexamination privileges 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 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.
- 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.
- The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.

(7) Academic Standing: Students are awarded a grade point average (GPA) at the conclusion of Years 1, 2, 3 and 4 of the program based on their performance in course examinations held during the year. Final decisions regarding academic standing and promotion to the next year are made by the Faculty Academic Standing and Promotion Committee.

- No student may proceed to any subsequent year of the DDS program unless all the work of the previous year is successfully completed.
- Students with a GPA of less than 5.0 at the end of any one of Years 1, 2, 3 and 4 will be required to withdraw from the DDS program.
- 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

- No student will be allowed to repeat Year 1 of the DDS program. At the discretion of the Dean; students in Year 2, 3 or 4 may be allowed to repeat a failed year.
- A student who is repeating a year must achieve a GPA of at least 5.5 and a grade of at least 4 in all courses taken in the repeated year. Students who fail to meet this standard will be required to withdraw.
- Except for laboratory and clinical courses, at the discretion of the Faculty Academic Standing and Promotion Committee acting on the advice of the discipline concerned, a student who repeats the failed year may retain credit for courses previously passed with a grade of 6.0 or better.
- 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
  - have achieved a minimum GPA of 6.0 in the fourth Year of the program;
  - have clinical deficiencies in no more than two clinical courses and have been advised that the deficiency could be corrected within a four-month period of instruction; and
  - 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 registration from the DDS program is required to make written application to the Associate Dean of Oral Health Sciences, stating the reasons for withdrawal and the intended period of withdrawal. Readmission to the DDS program following voluntary withdrawal is based on the following:

- A review, by the Faculty, of the reasons for withdrawal and of the student's academic record.
- Availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:
  - Students who have met normal promotion requirements
  - Faculty-approved repeating students and students returning after voluntary withdrawal, in order of academic standing
- 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 §26.1.4(7)).
- (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 to help determine infectivity risk. If Hepatitis B “e” antigen is positive the offer of acceptance will be withdrawn and registration to the DDS program will not be completed (see §15.9.3).

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.

Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Dentistry. 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.

### 93.2.2 Dental Hygiene Diploma

In addition to the regulations set out in §23, the following apply to students in the Dental Hygiene Program:

- (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 will not be eligible for awards.
- (3) 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.
- (4) **Reexaminations:** See §23.5.5.
- (5) 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 permitted to repeat the failed year must wait out one year before continuing in the program. Repeating students are considered for awards.
- (6) Students seeking readmission to the Dental Hygiene program have their application for readmission considered in competition with all other applicants by the Admissions Committee.
- (7) 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 Academic Standing Committee acting on the advice of the Department concerned. A grade of at least 6.0 is required for Dental Hygiene courses. A failed student in the final year of the program may be designated a Special Category repeating student and may complete graduation requirements at the completion of the Spring/Summer term.

Students who carry a reduced academic load exceeding ★6 from the normal Fall/Winter course load are not eligible for awards in that period.

- (8) A Special Category repeating second-year dental hygiene student
  - a. has achieved a minimum GPA of 6.0 in the second-year program;
  - b. has clinical 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.
- (9) Faculty Advisor: At the discretion of the Academic Standing Committee, 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 Council.
- (10) 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 to help determine infectivity risk. If Hepatitis B “e” antigen is positive, the offer of acceptance will be withdrawn and registration to the Dental Hygiene Program will not be completed. (See §15.9.2).

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.

### 93.2.3 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 terms “Years 1, 2, 3, or 4” should be considered as equivalents to “Phases I, II, IIIA or IIIB”.

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 §94.3.)

- (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 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:**
- 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.
  - At the end of fourth year, students take a comprehensive examination (denoted as MED 440/540) covering material presented in all four years of the program. Students must satisfactorily complete all clinical clerkship requirements in Years 3 and 4, and have a grade point average (GPA) of 5.0 or higher in the work of Years 3 and 4, excluding MED 440/540, 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.
  - Students must obtain a grade of at least 4 on a comprehensive examination before being promoted or allowed to graduate.
- (6) Courses grades of 3, 2, and 1 are failing grades. A grade of 4 is a conditional pass and will permit a student to meet promotion/graduation requirements when the student's overall GPA is 5.0 or better.
- (7) **Reexaminations**
- Students are allowed reexamination privileges only in courses that are failed.
  - Students with a GPA of less than 5.0 are not eligible for reexaminations in that year.
  - A student repeating a year is not allowed reexamination privileges in that year.
  - 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.
  - If a reexamination is approved, satisfactory completion of a remedial program may be required before the student is permitted to take the reexamination.
  - 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.
  - The reexamination mark will replace the original final exam mark (as in the case of a deferred mark).
  - For continuing students who entered the program prior to September 1998, reexamination privileges will be granted only if a student has a GPA greater than or equal to 5.0, and has failed two or fewer courses with course weights less than or equal to 20% of the total course weights for that year of the program.
  - For students entering the program in September 1988 and beyond, reexamination privileges will be granted only to students failing one course in any year of the program.
  - Reexamination of Comprehensive Examinations: Students who fail the comprehensive examination may rewrite the exam if their GPA including the comprehensive examination mark is at least 5.0.
- (8) **Academic Standing:** Students are awarded a grade point average (GPA) at the conclusion of Years 1, 2, 3 of the program based on their performance in courses taken during the year. In the case of Year 2 the comprehensive examination mark is included in the GPA. Final decisions regarding academic standing and promotion to the next year are made by the Faculty Academic Standing and Promotion Committee.
- No student may proceed to any subsequent year of the medical program unless all the work of the previous year is successfully completed.
  - Students with a GPA of less than 5.0 at the end of any one of Years 1, 2, 3 will be required to withdraw from the MD program.
  - Students with a GPA of less than 5.0 on all Year 3 and 4 courses excluding MED 440/550 (comprehensive exam) will not be allowed to write the comprehensive exam and will be required to withdraw.
- Continuing students who entered the program prior to September 1998 and who have a GPA greater than or equal to 5.0, but 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.
  - Students entering the MD program in September 1998 and beyond who have a GPA greater than or equal to 5.0 but fail more than one course in a Year of the program will be required to withdraw from the program.
- (9) **Graduate GPA:** At the condition of a student's program, a Graduation GPA will be computed which combines the marks for all elements of work, including the comprehensive, undertaken during Year 3 and 4 of the MD program. In order to graduate a student must achieve a graduation GPA of 5.0 or better.
- (10) **Regulations Concerning Repetition of a year because of Academic Failure:**
- 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.
  - A student repeating a year is not allowed reexamination privileges in that year of the program.
  - No student is allowed to repeat more than one year of the MD program.
  - A student who is repeating a year must achieve a GPA of at least 5.5 and a grade of at least 4 in all courses taken in the repeated year. Students who fail to meet this standard will be required to withdraw.
- (11) **Voluntary Withdrawal:** A student wishing to temporarily withdraw registration from the MD program is required to make written application to the Associate Dean of Undergraduate Medical Education, stating the reasons for withdrawal and the intended period of absence. Readmission to the MD program following voluntary withdrawal will be based on the following:
- review, by the Faculty, of the reasons for withdrawal and of the student's academic record;
  - Availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:
    - students who have met normal promotion requirements.
    - Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing
  - The length of time the student interrupts studies leading to the MD degree must not exceed two years in total.
- (12) **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.
- (13) 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 §26.1.4(7).)
- (14) 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 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 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. 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 standing 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).

**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 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.

### 93.2.4 BSc Program in Medical Laboratory Science

- 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 technical and academic demands, the student must successfully complete the requirements of both components to receive a passing grade.

Competence in communication, comprehension, and technical skills of each student is assessed by written evaluations in each discipline of each Medical Laboratory Science course. At least five evaluations are completed for each course by practising technologists/scientists. One of these evaluations is a composite completed at the end of the course and is worth 50% of the final technical assessment. The others are weighted equally and are worth 50%. Students must pass the technical component of each course with a mark of 50% or higher. Students who do not achieve this in any one course must satisfactorily complete a remedial period of training in that course, or may be required to withdraw. Students are allowed remedial training in only one course. Students who have entered Phase II on probation and who fail to achieve a mark of 50% in the technical component of any one course are not normally allowed remedial training and must withdraw.

- The quota for Phase I students is 26.
- Reexamination:** See §23.5.5
- A student permitted to repeat a course or an entire phase must withdraw unless a minimum average grade of 6.0 is obtained on the repeated work.
- Any student whose technical work or academic performance is deemed unsatisfactory may be required to withdraw from the Faculty.
- 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 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 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 Undergraduate Medical Education office, 2-45 Medical Sciences Building. 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 in the Faculty's Undergraduate Medical Education office, 2-45 Medical Sciences Building.

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

The University Code of Student Behaviour (§26) 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 §26.1.4).

## 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

#### 94.2.1 General Information

**Important note:** The DDS and MD programs have been revised effective September 1998. Continuing students in these programs 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.

#### Curriculum

The Department of Oral Health Sciences 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 pre-professional 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 Oral Health Sciences relate and integrate these fundamental disciplines with the knowledge, skills, judgment, and performance required of dental practitioners.

In addition to bedside and operating instruction in medicine and surgery, senior students are assigned to the Dental Clinic and the Department of Dentistry, University of Alberta Hospital. An experience in the Satellite 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.

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

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

### Library

The Medical Sciences reading room of the John W Scott Health Sciences Library contains a comprehensive selection of reference materials and textbooks on dentistry and related subjects. In addition, it contains most current dental journals in English and other languages, and the *Index to Dental Periodical Literature*, an index to all dental periodicals since 1839.

## 94.2.2 Course Requirements

**Important note:** The DDS program was revised effective September 1998. Students who entered the program prior to September 1998 are directed by the Calendar in place in the year in which they were admitted, or they should consult the Department of Oral Health Sciences for further information.

### Year 1

DMED 511	★3	5 weeks
DMED 512	★6	7 weeks
DMED 513	★6	7 weeks
DMED 514	★11	13 weeks
DDS 510	★6	8 hr/wk
DDS 514	★2	0-0-60
DDS 515	★1	15-0-0
DDS 516	★2.5	15-0-45
DDS 517	★7	40-0-135
DDS 518	★4	54-0-6
DDS 519	★1	15-0-0

### Year 2

DMED 521	★5	6 weeks
DMED 524	★9	11 weeks
DMED 525	★3	4 weeks
DDS 520	★6	8 hr/wk
DDS 521	★2	30-0-0
DDS 522	★2	7 weeks
DDS 523	★2	7 weeks
DDS 524	★3	25-0-50
DDS 525	★1	10-0-0
DDS 526	★1.5	6-27c-0
DDS 527	★2.5	15-0-45
DDS 528	★1	15-0-0
DDS 530	★2	0-60c-0
DDS 531	★5	30-0-90
DDS 532	★4	60-0-0
DDS 533	★2	30-0-0
DDS 534	★1	15-0-0
DDS 535	★2.5	15-45c-0
DDS 536	★5	30-45c-45
DDS 537	★2	15-24c-0
DDS 539	★1.5	15-0-21

### Effective 2000/2001

#### Year 3

DDS 540	★11	0-350c-0
DDS 541	★1	15-0-0
DDS 542	★1	15-0-0
DDS 544	★2	15-27c-0
DDS 546	★3	23-60c-0
DDS 547	★1	15-0-0

#### Year 3 (continued)

DDS 548	★6	15-150c-0
DDS 549	★3	25-0-45
DDS 550	★3	30-30c-0
DDS 551	★4.5	15-54c-45
DDS 552	★2	0-0-60
DDS 553	★5	30-90c-0
DDS 554	★4.5	15-105c-0
DDS 555	★1	15-0-0
DDS 556	★7	30-150c-0
DDS 557	★7	30-150c-0
DDS 558	★5	0-12c-0

### Effective 2001/2002

#### Year 4

DDS 560	★14	0-420c-0
DDS 562	★1	15-0-0
DDS 564	★1	15-0-0
DDS 566	★1.5	0-0-45
DDS 568	★3	30-36c-0
DDS 569	★3	0-80c-0
DDS 570	★3	35-24c-15
DDS 571	★3	30-30c-0
DDS 572	★2	15-0-25
DDS 573	★4	30-60c-0
DDS 574	★2	5-0-54
DDS 575	★3.5	15-75c-0
DDS 576	★3	15-60c-0
DDS 577	★2	30-0-0
DDS 578	★2	30-0-0
DDS 579	★1.5	15-18c-0
DDS 580	★3	0-80c-0

## 94.3 Dental Hygiene Diploma

### 94.3.1 General Information

The Department of Oral Health Sciences offers a Diploma in Dental Hygiene. 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.

The Dental Hygiene curriculum includes courses from the Faculty of Medicine and Dentistry. Dental School faculty from other clinical and basic science disciplines provide lectures and instructional assistance in clinic and classroom. During second year, students participate in field experiences in various community settings, such as hospitals, schools, and facilities for the handicapped, chronically ill, and aged. Experience in an external clinic is required.

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

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.

### 94.3.2 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.

#### Year 1

BIOCH 220	★3	39-0-0
D HYG 200	★3.5	43-0-4
D HYG 211	★5.5	84-0-0
D HYG 212	★6	0-0-180
D HYG 213	★3	0-90c-0



**Year 1 (continued)**

D HYG 214	★7.5	6-210c-0
D HYG 215	★2	28-0-0
D HYG 216	★1	14-0-0
D HYG 217	★1	20-0-0
D HYG 220	★3	28-0-26
D HYG 222	★2	28-6-0
D HYG 230	★1.5	20-0-0
D HYG 231	★1	14-0-0
D HYG 232	★1	14-0-0
D HYG 240	★2	28-0-6
D HYG 241	★1	0-12c-0
DENT 300	★0	0-8s-0
INT D 410	★3	0-39s-0
MMI 422	★2	28-0-0
OBIOL 202	★4	60-0-0
PHYSL 252	★6	78-0-0

**Year 2**

D HYG 313	★16	0-471-0
D HYG 316	★1	14-0-0
D HYG 317	★2	28-0-0
D HYG 321	★2	13-39c-0
D HYG 322	★2	28-0-9
D HYG 325	★0.5	0-12c-0
D HYG 326	★3	42-6-0
D HYG 329	★2.5	0-75c-0
D HYG 340	★2	0-48-0
D HYG 345	★1	14-0-0
D HYG 386	★1	15-0-0
D HYG 387	★0.5	0-0-15
OBIOL 300	★2	28-0-0
OBIOL 302	★3	45-0-0
OBIOL 305	★3	42-0-0

**94.4 MD Degree****94.4.1 General Information**

**Important note:** The MD program has been revised effective September 1998. The following program listed in this edition of the University Calendar applies only to those students admitted for September 1998. Continuing students in this program 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 that are a continuum from autumn of third year to the end of Year 4. This includes a Link course of 4 weeks, followed by a student internship of approximately 54 weeks, an elective program of approximately 14 weeks and a selective program of approximately 4 weeks developed by each student in consultation with the Undergraduate Medical Education Office. A wide range of approved elective and selective programs in all aspects of medical science, medical practice and related areas is available.

**94.4.2 Course Requirements****Year 1**

1. DMED 511 (5 weeks)	4. DMED 514 (13 weeks)
2. DMED 512 (7 weeks)	5. MED 516 (8 hours/week)
3. DMED 513 (7 weeks)	6. MED 517 (12 hours)

**Year 2**

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

**Years 3 and 4**

1. MED 532 (4 weeks)	9. PAED 546 (8 weeks)
2. ANAES 546 (2 weeks)	10. PSYCI 546 (8 weeks)
3. F MED 546 (4 weeks)	11. RADDI 546 (2 weeks)
4. MED 545 (2 weeks)	12. SURG 546 (10 weeks)
5. MED 546 (10 weeks)	13. MED 531 (36 hours)
6. MED 547 (14 weeks)	14. MED 541 (36 hours)
7. MED 548 (4 weeks)	15. MED 542 (56 hours)
8. OB GY 546 (8 weeks)	16. MED 540 (9 hours)

**94.5 Honors in Research Program in Medicine**

This program is for students looking for in-depth exposure to research during medical school. (Each candidate must spend a minimum of 24 weeks [approximately two summers] of active involvement in a research project to fulfil the requirements of the Honors in Research program.) There is an application procedure, final report requirement, and a minimal GPA stipulation. The program is monitored by the Medical Sciences Committee, and each student is supervised by a staff member. Successful students are recognized on their transcripts and medical diplomas. For information, contact the Office of Research, Faculty of Medicine and Dentistry, 2J2.11 Walter C Mackenzie Health Sciences Centre.

**94.6 Degree of BSc in Medical Laboratory Science****94.6.1 General Information**

The Faculty of Medicine and Dentistry offers an undergraduate degree program in Medical Laboratory Science to meet the demand for more highly qualified research laboratory personnel; for senior and supervisory technologists in large hospitals, government, and private laboratories; and for teaching positions in various schools of medical laboratory technology. The BSc in Medical Laboratory Science is a versatile degree that allows access to a multitude of advanced degrees and programs.

The preprofessional year and Phases I and III of the program are normal university years. Phase II, beginning approximately July 1, consists of clinical hospital laboratory training under the direct supervision of the Faculty of Medicine and Dentistry. If successful in their clinical phase, students may write certification examinations with the Canadian Society for Medical Laboratory Science.

**Note:** Because individuals working in hospital laboratories run some risk of infection from materials they handle, all students in the Medical Laboratory Science program must take a series of immunizations approved by the Office of the Dean of Medicine and Dentistry before beginning Phase I.

**94.6.2 Program of Courses**

Phase I	Phase II – Clinical Rotation (See Note 1)	Phase III (See Note 2)
1. MMI 240 (★6)	1. BIOCH 203 (★3)	1. ★12 chosen from MLSCI 430,460, 466, 475, 481 MMI 440, 426 or 427 or 405 or 415
2. MLSCI 230 (★3)	2. BIOCH 205 (★3)	2. MLSCI 480 (★3)
3. MLSCI 235 (★1)	3. MLSCI 320 (★3)	3. MLSCI 410 (★1)
4. MLSCI 250 (★2)	4. MLSCI 330 (★5)	4. Project course: INT D 491 (★6) or 409 (★3) and Science option (★3) (see Note)
5. MLSCI 262 (★3)	5. MLSCI 340 (★5)	5. INT D 410 (★3)
6. MLSCI 263 (★3)	6. MLSCI 350 (★5)	6. Arts option (★6)
7. MLSCI 270 (★3)	7. MLSCI 360 (★5)	7. Approved option (★3)
8. PHYSL (★6)	8. MLSCI 370 (★3)	
9. Arts Option (★3)		

**Notes**

- (1) During the Phase II clinical rotation, students are assigned to hospital laboratories approved for this purpose by the Council of the Faculty of Medicine.
- (2) ★3 in a Science option are required if a ★3 project is attempted. ★0 in a science option are required if a ★6 project is attempted.

**94.7 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 PhD in Medical Sciences 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.

## 94.8 Degree of Bachelor of Medical Science

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

### First Year

Two Science Courses  
Three Arts or Science Courses

### Second Year

Two Science Courses  
Three Arts or Science Courses

### Third Year

First-year of the MD Program

### Fourth Year

Second-year of the MD Program

### Provisions

- (1) None of the courses in the first and second year has been used for credit toward another degree.
- (2) The program does not include more than seven junior arts or science courses.
- (3) The science courses include
  - a. ★6 or equivalent in Inorganic Chemistry,
  - b. ★6 or equivalent in Organic Chemistry,
  - c. ★6 or equivalent in Biology (may include Microbiology, Zoology, Genetics, Botany, Entomology, Bacteriology, Immunology),
  - d. ★6 or equivalent in Physics.
- (4) The Science options do not include first-year courses in physiology.
- (5) At least the final two years have been taken at the University of Alberta.
- (6) A grade point of 4.0 or higher in all courses and a GPA in each year of at least 5.0 or equivalent is presented.
- (7) Not more than two reexaminations have been written for the purpose of obtaining passing marks or raising the GPA to the required 5.0.

## 94.9 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 Oral Health Sciences 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.

## 94.10 Continuing Medical Education

Continuing Medical Education 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, 2J3 Walter C Mackenzie Health Sciences Centre, University of Alberta, Edmonton, AB T6G 2R7.

## 94.11 Continuing Oral Health Sciences Education

Courses are offered by the Department of Oral Health Sciences to provide a program of continuing education for the dental profession. A program outlining dates, course descriptions, participation, and length is prepared annually and distributed to the profession.

## 94.12 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:

### 94.12.1 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

### 94.12.2 Certificate of Special Competence Programs

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

## 94.12.3 Accreditation Without Certification Programs

Critical Care Medicine  
Neonatology

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

For students seeking more academic careers, opportunities exist for combined clinical and MSc/PhD training through the Clinical Investigators Program. Further information is available from the Office of Research, 2J2.11 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.

Physics/Biomedical Engineering (PH BE)  
Physiology (PHYSL)  
Postgraduate Medical Education (PGME)  
Psychiatry (PSYCI)  
Public Health Sciences (PHS)  
Radiology and Diagnostic Imaging (RADDI)  
Surgery (SURG)

## 95 Courses

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

Anaesthesia (ANAES)  
Cell Biology and Anatomy (ANAT)  
Biomedical Engineering (BME)  
Biochemistry (BIOCH)  
Community Health (CO ME)  
Dentistry (DDS)  
Dentistry (DENT)  
Dentistry/Medicine (DMED)  
Dental Hygiene (D HYG)  
Emergency Medicine (EMER)  
Family Medicine (F MED)  
Health Services Administration and Community Medicine (H S A)  
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 (OB IOL)  
Paediatrics (PAED)  
Pathology (PATH)  
Pharmacology (PMCOL)