

Faculty of Medicine and Dentistry

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110 The Faculty of Medicine and Dentistry

Faculty Vision

To build an exceptional socially accountable Faculty through leadership in education, research and patient care and to be recognized as graduating highly skilled doctors for Canada.

Faculty Mission Statement

The Faculty of Medicine and Dentistry serves the public good through excellence in medical and health professions education, research and patient care. We build partnerships essential to a high-performing academic health sciences centre.

Faculty Educational Mandate

The University of Alberta Faculty of Medicine and Dentistry is dedicated to excellence in professional health care education, graduating competent generalist physicians and health care professionals responsive to the health care needs of our communities.

Undergraduate Medical Education: www.med.ualberta.ca/programs/MD

Undergraduate Dental/Dental Hygiene Education: www.dent.ualberta.ca

Undergraduate Medical Laboratory Science Education: www.med.ualberta.ca/programs/MLS

Undergraduate Radiation Therapy Education: www.med.ualberta.ca/programs/radth

Strategic Initiatives

The Faculty has defined three strategic priorities that will enable it to serve the public good:

- (1) Engage Communities
- (2) Define Excellence
- (3) Organize for Excellence

Values

- (1) **Scholarship:** To discover, interpret and disseminate new knowledge that promotes and restores health.
- (2) **Respect, Compassion and Caring:** To use these ideals to guide how we teach our students, care for our patients and work with our colleagues.
- (3) **Integrity:** To carry out our responsibilities to our patients, our students and our colleagues, maintaining the highest moral standards.
- (4) **Social Accountability:** To Engage all levels of the broad community in order to address their priority health concerns.
- (5) **Excellence:** To be dedicated to the highest standard of conduct in teaching, research and patient care
- (6) **Partnership:** To partner in education, research and health care for the greater good of the communities we serve.

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 Faculty Divisions	2
Number of Faculty (includes 42 FSO's)	783
Number of Administrative Professional Officers	27
Number of other (Academic Staff)	419
Number of Clinical Academic Colleagues	2,063
Number of Support Staff	1,438
Numbers of Students and Residents	
Medical Students	663
Medical Residents and Fellows	927
Dental Students	140
Dental Residents	4
Dental Hygiene Students	140
Medical Laboratory Science Students	85
Radiation Therapy Students	5
Graduate Students	586

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

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

111 The Professors

111.1 Teaching and Scholarship

The Faculty of Medicine and Dentistry offers a number of outstanding educational programs including the Medical Degree, the Doctor of Dental Surgery, Dental Hygiene, Medical Laboratory Science and Radiation Therapy. The Faculty also offers honors undergraduate programs in collaboration with the Faculty of Science and graduate MSc, PhD and MD/PhD programs in collaboration with the Faculty of Graduate Studies and Research.

The Faculty is now one of Canada's preeminent health sciences faculties, offering outstanding clinical care to patients, conducting world-class research and providing innovative educational programs to graduate and undergraduate students.

Faculty educators and clinicians work within one of Canada's largest health care regions and Faculty researchers attract over \$201 million annually in peer-reviewed research funding. The Faculty enjoys national and international recognition in the form of numerous Fellows of the Royal Society of Canada (FRSC) and two Fellows of the Royal Society (FRS), Canada Research Chairs, University Professor, Kaplan Laureates, Howard Hughes International Scientists and Laureates of Prix Galien and Manning awards. Graduates of the Faculty are highly regarded and go on to assume national and international leadership roles in a diverse number of health care fields.

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

Interim Dean

R Fedorak

Vice-Dean, Faculty Affairs

D Kunimoto

Vice-Dean, Education

F Brenneis

Vice-Dean, Research

D Evans

Chief Operating Officer

V Wulff

Senior Associate Dean, Dental Affairs

P Major

Associate Deans

B Fisher (Faculty Development)
N Gibson (Clinical Faculty)

T Hillier (MD Curriculum)

T Hobman (Research Facilities)

R Kearney (Postgraduate Medical Education)

J Konkin (Community Engagement)

M Lewis (Learner Advocacy & Wellness)

H Ostergaard (Research, Graduate Programs)

L Richer (Clinical/Translational Research)

J Romney (Health Informatics)

Interim Associate Dean

P Sagle (Undergraduate Medical Education)

Assistant Deans

S Ali (Professionalism)

S Andrew (Education, Quality and Accreditation)

E Dance (Resident Affairs)

P Hamilton (Undergraduate Medical Education)

K Jahangir (Clinical Faculty)

M Moreau (MD Admissions)

B Wilson (Student Affairs)

W Wong (Postgraduate Medical Education)

Directors

P Brett-MacLean (Arts and Humanities in Health and Medicine)

N Gibson (Simulation)

C Wong (Academic Technologies)

Faculty Departments

Anesthesiology and Pain Medicine

Chair and Professor

M Murphy

Administrative Officer

J Jubinville

Professors

BA Finegan

RA Kearney

S Rashedi

B Tsui

M Zaugg

Associate Professors

B Dick

D Dillane

B Kerr

Assistant Professor

S Bourque

Clinical Professors

JN Armstrong

J Devitt

DB DuVal

DP Gray

R Haugen

R Hudson

*MS Jacka

N Klassen

B Knight

J Lilley

S Paterson

RF Seal

MK Simmonds

Associate Clinical Professors

M Auld

RG Bergstrom

E Bishop

R Brown

M Buss

D Cave

A Chiarella

K Doyle

T Eliasson

LM Entwistle

*M Ewanchuk

KA Faccenda

F Gragasin

M Hogan

P Kulkarni

BE Marchak

T Ozelsel

GA Perez

B Ramsey

H Sandhu

S Sidhu

J Taam

*D Townsend

P Wildgrube

TW Yeh

Assistant Clinical Professors

B Achen

K Bateman

J Belzil

JM Berube

S Bhachu

M Breitling

BJ Bucyk

D Chen

R Cheng

PG Cisar

MR Cohen

BP Delbecq

JM Dupuis

W Flexer

V Ford

A Freed

J Green

AS Guest

S Gupta

DA Hardy

LY Huang

V Ip

DT Jolly

N Kembhavi

M Knezevich

JP Koller

J Krancjevic

*B Kropelin

ER Lazar

T Leung

J Lujic

IA MacDonald

C Mack

V Maragh

P Matthey

DA Mercereau

JA Moir

D Muzyka

L Nadeau

L Nadwidny

C Needham

CJ Noble

A Nunes

T O'Leary

SA Olson

P Paetsch

D Patil

BZ Petriv

M Quinn

SJ Reid

H Reine

A Roopnundh

ZS Saleh

L Scheeler

*MR Simmonds

D Snider

I Sobolev

J Soong

B Sowa

G Steel

S Stetsko

C Tang

*C Torok-Both

CT Twomey

BP Unger

M Yukawa

O Ziwenga

Clinical Lecturers

N Baldonado

A Barker

L Baron

S Behmanesh

MH Bercovich

R Bhalla

V Bobart

R Bowman

R Boyle

S Broemling

A Brown

C Cave

D Chan

JR Charlton

A Cheng

JH Chin

A Fielding

J Fuger

B Godlewski

B Goranson

P Holinski

JC Hrazdil

CM Hui

R Kindziarski

J Klinck

E Kwon

A LaFontaine

M Lalonde

J Largoza

D Leighton-Lane

P Lin

E Man

L McGowan

J Moyo

A Neufeld

AC Ng

S Nickolet

L Noonan

C Osmond

J Popoff

*K Reid

T Rimmer

T Rudge

F Rudolph

OJ Schneider

S Singh

G Smith

D Terblanche

H Ting

I Wachowski

Q Wensveen

Adjunct Professors

P Brindley

C Eagle

W Ethes

Adjunct Assistant Professors

G Bostick

A Chuck

Professor Emeritus

BT Fincucane

Biochemistry

Chair and Professor

CFB Holmes

Assistant Chair, Administration

Vacant

Professors

RC Bleackley

DN Brindley

J Casey

*CE Cass

MJ Ellison

L Fliegel

JNM Glover

*R Godbout

MNG James

BD Lemire

*L Li

A MacMillan

RN McElhanev

M Michalak

L Schang

MC Schultz

JC Stone

BD Sykes

*DLJ Tyrrell

DE Vance

JH Weiner

*D Westaway

H Young

Associate Professors

R Fahlman

C Fernandez-Patron

IS Goping

L Spyrapopoulos

D Stuart

H Wille

Assistant Professors

*S Bakash

J Lemieux

N Touret

*D Zhang

Professors Emeriti

WA Bridger

JS Colter

RS Hodges

CM Kay

NB Madsen

VH Paetkau

P Scott

LB Smillie

Faculty Service Officers

R Milner

J Parrish

A Wright

Biomedical Engineering

Chair and Professor

RE Burrell

Professors

C Beaulieu

MA Gorassini

*R Lambert

*KG Pearson

*A Prochazka

*RV Rajotte

AH Wilman

*JF Wolfaardt

Associate Professors

*T El-Bialy

*DJ Emery

*N Johma

*T McMullen

RB Thompson

Assistant Professors

*N DeZanche

*D Gross

*S Kalra

*L Le

N Malykhin

S Lahl
K Lung
D Pettigrew
W Preshing
J Ritchie
C Robinson
TR Stevenson
P Williamson
KW Wong
CC Yu
DC Yu
G Zenith

Associate Clinical Professors

M Armstrong
K Bapoo-Mohamed
DH Bedard
C Blackman
N Chalk
LC Chan
R Croutze
R Easton
K Habib
I Hernandez
M Howell
D Kelner
B Kucey
EWL Kwan
J Leakey
VP Lee
T Lee-Knight
B Linke
J Lockau
S Lockwood
DJ MacDougall
BR Neumann
M Parfitt
A Senior
A Sheppard
A Sneazwell
E Steinbring
NThie
J Valentine
WG Wesner

Assistant Clinical Professors

N Alsufyani
S Ash
T Aucoin
M Bennett
TS Bennett
B Bergh
L Best
A Brodie
D Brown
K Cheng
J Clarke
J Cornish
D Correia
K Currie
T Debevc
D Demchuk
W Dewar
D Dietz
J Eberhardt
D Van Elslande
K Farrell
N Fleming
G Grykuliak
S Heglund
A Hoh
S Houshyar
I Hucal
L Hursin
J Jacob
E Jang
L Kamelchuk
B Kan
D Kawahara
D Kemp
B Knight
I Komerup
E Kucey
B Kula
Z Kurji
C Lee
S Lee

K Lim
D Lobb
D Lunardon
W MacKinnon
I Mah
L Mar
J Margolus
D Maskell
I McKee
J Ng
I Ongaro
M Pokroy
R Pratt
J Pruner
R Reiter
S Russett
M Salehyar
K Sauze
E Specht
K Sperling
S Smith
R Straga
A Sumar
S Switzer
U Szkudlarek
A Tam
R Tply
D Tsujikawa
T Vankka
T Verhaeghe
D Vincelli
J White
B Wong
H Woo
M Wright
P Wu
J Yacyshyn
D Yeung
HC Yu

Clinical Instructors

S Al-Daghter
M Al-Saleh
S Aurora
J Brown
A Dela Cruz
C Ford
A Hussain
J Jabbour
J Jacob
K Khabra
R Lee
S Lee
K Lobay
S Lopresti
MA Mandich
H Massini
M Mueller
D Powell
L Riemer
V Singh
S Smith
J Snestrud
S Wong
M Zell
M Zenith
L Zylstra

Faculty Service Officer

D Harley

Adjunct Professor

J Carey

Adjunct Associate Professors

M Doschak
H El-Hakim
E Kalaydjian
J Nychka
M Whitmans

Adjunct Assistant Professors

J Liu
G De Luca Canto

Professors Emeriti

BK Arora
HM Dick
HE ElBadrawy

KE Glover
WT Harley
WG Meyer
CJ Osadetz
JW Osborn
DM Paton
J Pimlott
JM Plecash
KM Polukoshko
GW Raborn
PD Schuller
DA Scott
GH Sperber
GW Thompson
NK Wood

Emergency Medicine**Chair and Professor**

BR Holroyd

Professors

M Bullard
C McCabe
B Rowe

Clinical Professors

T Graham
R Lee
TD Sosnowski

Associate Clinical Professors

MA Cherniwhan
GE Cummings
E Dance
K Dong
S Dong
C Evans
J Franc
R Purser
C Rabuka
W Sevcik
S Sookram
W Thirsk

Assistant Clinical Professors

E Berdusco
D Bond
MJ Boulanger
JJ Brown
E Chang
R Cunningham
R Daloise
B Edgcombe
M Haager
R Hansen
A Hanson
K Harris
P Jain
A Kabaroff
R Keyes
C Kjelland
V Krisik
R Kruhlik
K Lam
K Lobay
M Long
G Lung
R MacDonald
C Macgougan
M Mackenzie
S MacLachlan
K McLelland
A Mirza
M Mrochuk
A Murray
*A Naismith
J Norum
R Oland
DC Perry
C Peterson
SA Poplawski
M Rico
D San Agustini
R Scheirer
F Soibelman
*L Thomas
A Ushko
AF Walker
R Yao

Clinical Lecturers

*E Alonso
J Anderson
D Ariano
N Arya
D Barer
M Bennett
J Bitangcol
*J Bly
T Braun
L Burkart
G Butler
C Campbell
H Canham
J Chang
S Chapman
M Chen
JR Chin
S Chow
B Crawford
K Cromwell
A Cunniffie
S Datta
B Deane
P Delaney
N Dhaliwal
S Doran
E Dromey
J DuPreez
S Fisher
S Flanagan
K Foster
C Garcea
E Gawley
D Ha
AD Haponiuk
S Haque
L Hillier
D Hoshizaki
D Hryciuk
M Inwood
S Jones
D Kralt
N Lam
D Lefebvre
KH Lee
Y Li
J Liddle
P Linehan
C Lucyk
A Lund
W Ma
K Mailo
K Mangan
G Mazurek
J McKague
S Meleshko
A Mistry
S Mithani
J Mohler
J Triscott
W Molberg
M Moss
K Muwanquzi
DW Neilson
K Neilson
LK Nguyen
D Nixon
K O'Brien
J Pattison-Bacon
S Potgieter
J Pritchard
D Reid
J Reid
J Reitsma
R Ribeiro
A Roche
R Rosenblum
S Ross
J Sainsbury
G Scheirer
L Sharma
R Sherman
R Singh
A Stagg
TF Stetsko
DF Stewart

J Stonehocker
J Thompson
A Toeg
M Tousignant
F Voon
D Watrich
C Westover
D Wheeler
S Wiens
J Williams
R Wittmeier
C Wong
A Yeung
AD Yeung
M Young
J Zaozirny
*R Zhang

Adjunct Professor

L Francescutti

Adjunct Assistant Professors

D Allain
C Angelski
R Arent
S Curtis
M Enarson
*L Evered
S Grevall
H Jou
M Kundra
M Oliva
L Tchir
T Turner
B Windwick

Associate Adjunct Professors

S Ali
W Craig
D Nichols
I Vicas
M Yarema
P Yoon

Family Medicine**Chair and Professor**

LA Green

Administrative Officer

M Perreault

Professors

GM Allan
NR Bell
A Cave
BM Dobbs
MG Donoff
N Drummond
P Humphries
C Lebrun
DG Moores
J Triscott

Associate Professors

HL Banh
FR Brenneis
D Campbell-Scherer
S Garrison
F Janke
L Keenan
D Klein
MR Kolber
J Konkin
C Korownyk
D Manca
D Nichols
J Parmar
D Ross
S Ross
S Schipper
L Steblecki

Assistant Professors

L Au
C Cardinal
K Chan
L Charles
JT Chmelicek
A Gruneir

S Koppula
G Salvalaggio
A Tan

Clinical Professors

FW Armstrong
SK Aung
AE Ausford
AL Bailey
G Blais
JF Chiu
I Colliton
*TFX Corbett
*NP Costigan
N Flook
K Gardener
*T Graham
TD Kolotyluk
EP Schuster
*TD Sosnowski
A Taube
H Woytyuk
H Zirk

Associate Clinical Professors

M Abbasi
JB Armstrong
PMD Armstrong
BV Brilz
J Bromley
*MA Cherniwhan
WE Clelland
JE Craig
*GE Cummings
NAC Da Cunha
DP Edgcombe
*CGM Evans
AC Gigg
JJ Hankinson
N Hans
HR Hindle
M Hurlburt
AA Indar
K Jahangir
P Jensen
P Kivi
GA Lamoureux
*LD Larose
A Lindblad
CJ Lord
KAH Lundgard
B Lycka
LM Ma
BK McPeak
BJ Millar
AM Milne-Epp
MB Moran
R Naiker
EW Papp
KM Peterson
*RA Purser
OS Rahaman
GJ Rey-Parra
BD Ritchie
JM Robinson
M Rose
S Simon
A Spak
RJ Wedel

Assistant Clinical Professors

D Abdellatif
KJM Abel
S Ahmadinejad
G Ahmed
T Bakshi
DH Banmann
D Behn Smith
PM Belda
JE Bell
*E Berdusco
RS Birkill
*DW Bond
*M Boulanger
BW Boyko
TB Bray
*JJ Brown

PA Caffaro
DA Carew
R Carter
J Caulfield
S Chakravarty
TS Chan
SW Chambers
HJL Chen
SA Christenson
D Corby
*R Cunningham
WJ Daviduck
E Denga
KD Dinyari
LD Dujon
S Edani
*B Edgecombe
LR Edwards
SM Fairgrieve-Park
SL Fallis
TF Flanagan
DC Fung
TL Fung
AL Gainer
K Ghali
CR Gingles
*MS Gross
CE Haig
RA Halse
RS Hauptman
CD Hodgson
ES Holmes
J Janmohamed
K Jahangir
RB Kaasa
H Kammerer
KP Kelly
DW Korzenowski
*RT Kruhlik
D LaBuick
*DL Larose
R Laughrin
AS Lee
K Loeffler
*MJ Long
SE Low
JA Makokis
LE Mann Hosford
MG Mannarino
JP Mare
A Marin
RA Martin
T McKeown
DP Miller
*A Mirza
RC Misfeldt
EM Mori-Torres
MP Morros
S Murji
*AR Murray
A Naismith
*B Nankissoor
ED Ndovi
RL Oishi
P Ondrus
*EB Persson
*SA Poplawski
M Rafati
TF Ranieri
N Rao
JG Reilly
GJ Rey-Parra
*M Rico
RD Rogers
C Rowntree
K Rylance
S Samuel
GR Sawisky
WE Schneider
G Schwalfenberg
Y Shi
J Shimizu
CA Sikora
LL Smith
SD Smith
S Soehn

TPW Souster
RM Stepanko
H Sternberg
J Stickney-Lee
L Thomas
S Thompson
GA Torok-Both
EB Tredget
SA Tsikata
*AW Ushko
PM Verones
DRJ Vincent
C Vos
*AF Walker
L Wasilenko
ML Wesner
ML Wickland-Weller
I Williamson
JA Wismark

Clinical Lecturers

S Abood
RJ Ackroyd
M Addison
FO Adebayo
KP Adzich
RM Ahmad
I Akinjise
DR Akintola
JJ Aleker
A Algu
N Al-Kayssi
MC Allan
E Almaden-Camacho
EJ Alonso
I Amusan
RR Anderson
SG Anderson
K Anderson-Hill
JR Andreiuk
E Andrews
DM Andriashek
K Andrusky
A Aradi
IJ Argals
GL Armstrong
GM Arps
LE Mann Hosford
K Atchison
LL Atkinson
WB Azzi
H Bablitz
SA Backlin
B Bagdan
B Bahler
IH Bailes
JL Baker
*DJ Barer
EA Barker
CA Barnsdale
CS Barr
CA Barreth
KR Barry
N Bector
PE Bell
M Benard
K Bennett
JE Bergens
L Bernier-Lycka
A Bertagnolli-Hansen
S Beshai
S Bhardwaj
A Bhimji
JJ Blaker
JD Bly
GM Bokenfohr
S Borrelli
N Botha
PJ Bouch
HG Bowden
L-E Bredezen
LE Brehmer
KL Brown
HD Brussow
RM Buck
LA Buhr

LE Burger
EA Button
TJ Byers
E Calhoun
GL Campbell
KB Cardinal
LJ Carter
MR Cassim
DB Cave
DR Chan
JC Chan
JS Chan
TS Chan
HS Chana
M Chapeliski
SG Charbonneau
A Chari
I Chatterjee
HN Chau
M Chaudhry
FJ Cheng
V Chetty
J Cheung
R Cheung
BP Chew
S Chiang
ME Chisholm
AYL Chiu
PK Chiu
K Chow
J Chronopoulos
Z Chranowski
WG Church
NN Chychota
CJ Claasen
J Clarke
L Coetzee
JM Colebrook
PR Comeau
JR Corrigan
EC Côte
P Coulson
RF Crowe
S Crum
H Cuddihy
C Cull
M Currie
M Askar
JA D'Costa
MC Darby
TS Darnell
S Datar
RG Davidson
WLM Dawson
*BC Deane
J de Bruyn
L de Freitas
H de Ridder
T de Vos
T Defreitas
LM Der
N Dhaliwal
GS Dinsa
A Dobrousin
A Draginda
M Dry
D Duffy
B Dufresne
S Duia
GS Dulai
RH Dunbar
GC Du Plessis
M Du Plessis
T Du Toit
V Duta
M Easwara Murthi
MS Eckhart
FF Elesin
EO El-Hajj
CJ Ellis
MS Elmusharaf
JF Erasmus
M Erasmus
TN Erickson
D Ethier
DG Faulder

LA Fernando
DW Fields
MT Fillion
BL Fischer
*SD Flanagan
AH Fong
C Foolen
MA Forder
JS Fowke
AB Franke
I Gagnon
KE Game
CM Gannon
AS Garbutt
*E Gawley
C Gee
AG Genge
SC Ghitler-Mannes
SK Gill
JM Godel
AB Gokul
CG Gordillo
HA Gordon
A Gossmann
A Goswami
R Gounden
RJ Gregg
RI Greidanus
W Griffin
J Hamm
RR Hanelt
VM Hanlon
AL Hargrove
AC Harmse
M Hartt
B Hasan
DA Hasinoff
M Hauptfleisch
J Hawkwod
BC Hayden
JA Hernberger
S Heydenrych
EE Hibbitts
JS Hilner
J Hirji
*C Hlushak
WD Hogarth
J Holm Jhass
SM Hood
S Horvey
AJ Hrdlicka
*DJ Hryciuk
KD Huber
KW Hult
HS Irvine
S Jabbari-Zadeh
A Jackson
WG Jacobs
L-A Jansma
AJ Jarema
A Jaroni
A Jeraj
AL Jerome
SL John
PM Johnson
CG Johnston
LDT Jones
AL Jorgensen
NS Karnik
MMK Karpivyevich
S Karpman
D Kasavan
KA Kasha
J Kassam
M Kauchali
K Kay-Pfau
JS Keay
RE Keller
CJ Kendall
OT Khan-Afridi
M Khurana
S Kibria
RL Kijewski
DG Killick
BL Kinash
JEM Kirkwood

M Kirwan
AM Kohler
KM Koliaska
S Konynenbelt
S Kostov
VD Krinke
IE Kritzinger
SG Kroeker
LM Kulak
AL Kutash
P Kwan
S Kwon
C Laidlaw
M Lal
RA Lamoureux
EP Landsbergen
JM LaRue
CR Lavoie
HP Le
JH Lee
PJ Lewis
B Li
E Li
Z Li
MM LIm
D Lisoway
FH Lo
JM Loge
RM Loiselle
BM Long
SS Lou
AJ Louw
C Lu
C Ma
CJ MacCarthy
IR MacDonald
BA Macedo
DW MacIver
SJ MacIver
SBA MacLean
T Madzimum
P Maheshwari
KD Mailo
SA Makhdoom
SS Malik
AG Mallett
S Manchikanti
M Maneshgar
*K Mangan
M Marcu
PA Marner
BW Martin
KAC Martin
S Mausolf
JL May
A Mayes
*GG Mazurek
AM McBain
K McBeath
M McCall
DM McCarty
A McDonald
TJ McDonald
KD McFarlane
C McKibbin
NE McNeilly
KL McNicol
KL Meador
D Millard
GW Ming
S Minnett
JR Minsos
R Modi
GC Moe
RA Moffatt
TM Mogus
ZA Mohammed
TM Mohanraj
*JA Mohler
*W Molberg
MK Morrison
FM Mosaico
SM Moussa
JM Muller
JD Murphy
RJ Muthanna

F Mydeen
O Naidoo
L Nanninga-Penner
MR Nawrot
CA Naylor
S Needham
*KD Neilson
RAJ Neuls
PJ Newnham
LP Nguyen
MJ Nizam
AE Noga
TC Nordli
RD Northcott
BC Nwaka
J Obst
JA O'Connor
SO Ogbeide
JO Ojedokun
OS Oladele
CE Olson
O Oosthuizen
WDL Orr
C Otto
SE Oyama
P Palma
P Paludet
JD Paproski
CD Parameswaran
DJ Paras
AA Patthan
M Pattison-Bacon
TA Peebles
LD Pernisie
G Perry
B Pezeszki
LM Pfeifer
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DA Pickle
K Piebiak Patterson
BL Pieprgrass
HM Plucinska
M Poitras
AJD Pope
NA Potvin
GD Prince
J Prins
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AR Rahn
R Rajput
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NP Rattan
S Raubenheimer
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A Riaz
Q Rizvi
JA Robinson
AM Rosborough
DR Ryan
A Sadiq
M Saint-Martin
JM Sametz
GM Samyia
JJ Saunders
AL Sawchuk
A Sayani
MR Sayeed
*GD Scheirer
JE Schimpf
M Senekal
B Sereda
N Shahoo
E Shaker
S Shakil
MTL Shandro
*RK Sherman
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RJ Simard
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S Squires
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*TP Stetsko
*DF Stewart
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FM Steyn
H Strydom
S Sultana
A Swinton
E Tailfeathers
OA Taiwo
T Taiwo
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MJ Thain
MA Theman
G Tirschmann
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LB Torok-Both
R Torrie
A Train
T Tran
JWY Tsang
JE Tse
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JK Tupper
RL Turner
SL Turner
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ZA Van den Heever
HHH van der Watt
JP Van Der Westhuizen
R van Rooyen
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A Vasanji
L Venter
O Vicarrudin
Z Vicarrudin
M Vijoen
GS Vitug
JS Voldeng
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RG Warren
VM Warren
SM Warwick
W Wash
S Wat
J Weaver
DS Welch
*CN Westover
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RG Chaytors
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GR Spooner
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S Esmail
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DL Myhre
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F Esfandiarpour
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C Charlton
LG Hidalgo
I Izevbave
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G Clarke
P Colbourne
DTP Dawson
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TE Higa
T Higgins
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A Lacson
DF LeGatt
C O'Hara
C Prosser
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S Anwar
H Berendt
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G Blakney
S Brown
RS Davey
WF Dong
*S Ganatra
S Girgis
M Kattar
*K Kowalewska - Grochowska
MN Mahmood
GD Neuman
N Rayani
M Saddick

N Satkunam
A Sauvageau
S Silverman
ICF Sin
*JA Talbot
D Tung

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B Adeagbo
K Alanen
LM Aye
B Balachandra
B Bannach
V Barakauskas
M Bodnar
E Brooks-Lim
T Chaba
S Chan
G Charrois
I Chaudhry
S Chow
M Estey
C Ewanowich
A Fuezery
C Garady
HL Gritter
T Hailu
J Hwang
J Khetani
S Kulkarni
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MW Lee
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N Lilić
JQ Lu
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P Makarla
VL McCann
DR McLean
A Meliti
T Nazir
R Onell
S Puttaswamy
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A Reid
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A Sim
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GO Wood

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S Andrew
*D Eisenstat
*OJ Lehmann
A Reid
*IM MacDonald
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MJ Somerville
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Z Wang
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S Hughes
SL Hume
NJ Leonard
K Sriwardena
S Taylor
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*F Bolduc
O Caluseriu
S Jain Ghai
T Yokota

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S Merchant
R Sisk
M Yoshimoto

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S Bamforth
DW Cox
D Gilchrist

Medical Microbiology and Immunology

Chair and Professor
M Gotte

G Jiang
M Lai
SF Lee
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Director and Associate Professor
LE Purdy

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J Holovati
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S Andrew
*D Eisenstat
*OJ Lehmann
A Reid
*IM MacDonald
*H McDermid
*L Mitchell
MJ Somerville
*O Suchoversky
Z Wang
R Wevrick

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*D Burshtyn
AJK Chan
*D Graf
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SL Hume
NJ Leonard
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S Taylor
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*W Allison
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O Caluseriu
S Jain Ghai
T Yokota

Assistant Clinical Professors

S Merchant
R Sisk
M Yoshimoto

Professor Emeriti

S Bamforth
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Medical Microbiology and Immunology

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*C Anderson
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*L Babiuk
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B Hazes
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*S Elahi
*M Hawkes
*M Kulka
D Marchant
M Shmulevitz
*S Urschel
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*B Romanowski

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A Chandran
J Kanji
J Nigrin
N Solomon
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FL Jackson
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Administration**
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Professor**
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PW Armstrong
H Becher
JR Burton
B Cujec
W Dafoe
MM Graham
D Johnstone
ED Michelakis
B O'Neill
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P Raggi
RT Tsuyuki
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G Oudit
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N Alhulaimi
NS Brass
M Chan
LA Kasza
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M Shibata
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Assistant Clinical Professors

M Dorsch
Y Fu
D Hammer
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RCM Leung
TG Muzyka
G Nogareda
KV O'Reilly
K Ranjbar
S Sharma
T Taher
B Tyrrell
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J Windram
J Wong
KS Woo

Clinical Lecturer
L Valtuille

**Assistant Clinical Professor
(Secondary)**
S Sharma

Professors Emeriti
M Haraphongse
BI Jugdutt

Adjunct Professors
WC Chang
R Coulden
S Goodman
M Kanthoch
R Sheldon

Adjunct Assistant Professors
S Bhattacharya
AW Chuck
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Clinical Hematology

**Division Director and
Professor**
J Brandwein

Professors
LM Larratt
DBC Ritchie

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A Peters
L Saini
I Sandhu
C Wu
N Zhu

Associate Clinical Professor

M Game

Assistant Clinical Professors

M Bodnar
E Liew
M Taparia

Clinical Lecturers

L Bolster
J Patterson
T Van Slyke

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M Hamilton (FSO II - Assistant
Teaching Professor)

Adjunct Professor
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Professors Emeriti
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MJ Mant
AR Turner

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**Division Director (Interim)
and Professor**
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D Zakus

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Clinical Professors
H Bryant
G Predy

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R Briggs
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O Bennett
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D Hinshaw
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M Lavoie
T Parminder
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C Sarin
H Virani

**Assistant Clinical Professor
(Secondary)**
C Sikora

Adjunct Professors
R Coppock
G Gibbs
E Jonsson

Adjunct Associate Professors
K Corbet
K Harrison
H Hoffman
V Lappi
B Lauber
J Razavi
R Stacy
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Adjunct Assistant Professors
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Department of Medicine

Associate Professor
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Assistant Clinical Professor
K Grimrud

Clinical Professor (Secondary)
D Legatt

Adjunct Associate Professor
N Dower

Adjunct Assistant Professor
F Davoine

**Dermatology and
Cutaneous Sciences**

**Divisional Director and
Professor**
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A Brassard
J Elliott
T Salopek

Clinical Professors
J Brown
J Rao
EH Schloss
GE Searles

Associate Clinical Professors
MT Dytoc
JY Liao
A Lim
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Assistant Clinical Professors
E Chow
M Kalisiak
CP Keeling
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Clinical Lecturers
M Cheung-Lee
P Grewal
TC Nakatsui

Adjunct Professors
L Fiorillo
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**Endocrinology and
Metabolism**

**Division Director and
Professor**
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CLY Chik
RZ Lewanczuk
L Mereu
DW Morrish
EA Ryan
AM Sharma
S Sharma
J Vance

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Assistant Professor
S Cheng

Clinical Professor (Secondary)
C Prosser

Assistant Clinical Professors
J Jacquier
S Kwong
S Li
R Mitchell
S Pertman

Clinical Lecturers
S Cawsey
S Parameswaranathan

**Associate Clinical Professor
(Secondary)**
K Siminoski

Associate Clinical Professors
PA Hardin
K Hopkins
T McNab
A Opgenorth

Adjunct Professors
*S Harvey
J Shapiro

Adjunct Associate Professor
JA Johnson

Adjunct Assistant Professor
T McMullen

Professor Emeriti
PM Crockford
E Toth

Gastroenterology

**Division Director and
Professor**
S Van Zanten

Professors
VG Bain
LA Dieleman
RN Fedorak
K Goodman
LM Gramlich
P Jacobs
M Ma
KL Madsen
DC Sadowski
GS Sandha
G Wong
W Wong

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J Abraldes
L Bistriz
KS Gutfreund
D Kao
A Lazarescu
AL Mason
A Montano-Loza
P Tandon
CKW Wong

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C Karvellas
J Liu
R Sultanian
C Teshima
S Zepeda-Gomez

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RJ Bailey
CM Switzer

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A Bala
JP McKaigney
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N Hoque
K Kroeker
K Matic
R Penner
C Render
S Robbins
J Siffledeen
L Stead
DN Todoruk
BMA Walters
K Wong
M Zeman

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A Hanna
A Lim
G Lutzak
A Morse
M Pinchbeck
V Selvarajah

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D Cox
JB Meddings
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Medicine**

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BW Fisher
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P Hwang
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K Bowering
A Colbourne
N Dean
NE Gibson
E Kretzul
TK Lee
*GF MacDonald
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**Distinguished Clinical
Professor**
A Voth

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H Bertozzi
A Brisebois
T Bryan
G Hrynchyshyn
C MacDonald
F Morales
MG Nutting
E Raff
G Ramsay

Assistant Clinical Professors
R Al-Agha
J Allen
D Au
D Bartha
M Baur
PM Buckle
RJ Burris
R Chea
K Craig
A Ghani
E Gilbert
R Grynoch
P Guo
A Hendricks
J Kachope
M Karolak
PH Lam
LER Malowany
R Maraj
M Moreau
B Nankissoor
J Nicholson
JE Rouget
A Tapardel
H Tarhoni
YN Westra
T Wuerz
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**Assistant Clinical Professor
(Secondary)**
S Khanda

Clinical Lecturers

A Au
J Bakal
N Bakshi
A Bharmal
L Bridgland
K Cernohorsky
S Chihirin
H Choi
R Choudhury
A Fahoum
RA Hosein
R Hrimiuc
S Ip
S Kehlon
H Leon
G Nikoleychuk
M Obeidat
S Salman
D Slabu
B Sugars
S Thompson
E Toor
S Vijay

Adjunct Professors
D Gilchrist
A Yeung

Adjunct Associate Professor
A Esmail

Adjunct Assistant Professor
G Suen

Professor Emeritus
CH Harley

Geriatric Medicine

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Professor**
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Professor
DB Rolfson

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AG Juby
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Associate Clinical Professor
FM McAllister-Lawson

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D Rucker

Adjunct Professor

J Triscott

Adjunct Assistant Professor

K Hunter

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ProfessorsB Ballermann
B BraamPM Campbell
SM Cockfield
SN Davison
PF Halloran
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AW McMahon
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AG Murray
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R Grynoch
S Habib
CW Johnston
U Qarni
SP Reddy
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KE Doucette
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C Alvarez

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L Miedzinski

B Romanowski

A Singh

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C Boyington
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D Kabbani
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S Rosser
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D Kumar

Adjunct Assistant Professors

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JH Jhamandas
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WR Martin
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ML Myles
E Starreveld
C Tai
NJ Witt**Assistant Clinical Professors**M Bussiere
B Edguer
M Hamadeh
R Jassal
J Kashmere
M Knash
K Makus
J McCombe
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SA Warren**Adjunct Assistant Professor**

S Cleary

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ProfessorsN Ashworth
KM Chan
V Mushahwar
L Satkunam**Clinical Professors**LA Bellamy (Emeritus)
M Watt**Associate Professors**J Hebert
D Naidu
S Yablou**Associate Clinical Professors**R Burnham
M DiPersio
JB Guthrie
J Townsend
C Tuzhak**Associate Clinical Professors**H Acharya
R Charbonneau
A Currie
S El-Maadawy
J Irvine
B Rambaransingh
E Sampson
R Thiara**Clinical Professors**A Aly
J Chia
S Gonzales
C Hlushak
R Jassal
H Lindstrom
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T Yen**Adjunct Professors**J Anderson
W Dafeo
N Dean
*RB Steinh**Professors Emeriti**

T Gordon

Adjunct Assistant Professor

M Prowse

Pulmonary Medicine**Division Director and Professor**

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ProfessorsAD Befus
P Lacy
DC Lien
R Long
GC Man
I Mayers**Associate Professors**M Bhutani
L Cheung

RW Damant

M Kalluri
M Stickland
D Vethanayagam
JG Weinkauff
EYL Wong**Assistant Professors**K Halloran
A Kapasi**Clinical Professor (Secondary)**

D Stollery

Associate Clinical ProfessorsJS Archibald
W Dickout
MK Heule
S Marcushamer
J Richman-Eisenstat
J Sebastian
EL York**Assistant Clinical Professors**M Bibeau
B Chiam
V Dhawan
J Dirks
W Leung
A Liu
L Melenka
A Shustak
K Sideri
P Wei**Clinical Lecturers**D Carney
C Irani
K Mulchey
A Parhar
J Yehya**Faculty Service Officer**

B McNab (FSO II - Assistant Teaching Professor)

Adjunct ProfessorsDA Enarson
NRT Gibney
M Kulka**Adjunct Associate Professors**DJ Adamko
G Broderick
L Cameron**Adjunct Assistant Professors**

G Verma

Professors EmeritiFA Herbert
BJ Sproule**Rheumatology****Division Director (Interim) and Professor**

SL Aaron

ProfessorsP Davis
WP Maksymowych**Associate Professors**JE Hornik
S Keeling
A Oswald
EA Yacyshyn**Clinical Professor**

R Ferrari

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S Katz
DE Sholter
KJ Skeith
A Yan**Assistant Clinical Professors**PL Chiu
HN Jones
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AS Russell

Obstetrics and Gynaecology**Chair and Professor**

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Administrative Professional Officer

Shannon Charney

ProfessorsST Davidge
C Flood
BF Mitchell
DM Olson
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S Chandra
R Chari
D Hemmings
V Jain
T Motan
A Schepansky
J Schulz
H Steed**Assistant Professor**

M Hyakutake

Other Academic:

S Ross (CAST appointment)

Clinical ProfessorsM Bow
R Chua
T Corbett
S Genius
T Gleason
DJ Hodges
CF Hoskins
G Iwaniuk
M Lieberman
MS Mah
SN Schuurmans
IV Tataryn
T Unger
R Uretsky**Associate Clinical Professors**C Barnes
D Barreth
S Baydock
G Black
R Black
RJ Brown
H Danial
E DeDoming
G Jiwa
D Larose
A Lee
AM Long
J Mayo
JM McCubbin
B Muir
*A Plewes
H Robinson
M Roy
D Slade
F Tam
J Tinkel
M Tauh
F Tsui
P Verma
J Wang
K Wiebe
C Wittner-Smith
B Wong
W Young**Assistant Clinical Professors**E Bader
C Ballermann
CL Cooke
*G Gray
J Griffiths

*S Gross

S Halleran
N Jilwah
A Kim
N Marais
K Naud
P Patel
*S Reid
A Romanovsky
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T Turner
*P Wales

Associate Clinical Professors
*D Adamko
T Alexander
S Ali
I Amirav
J Andersen
D Andrews
S Baksh
*S Bamforth
*L Bajzar
G Ball
L Baydala
C Birkman
*A Chan
B Clark
IW Craig
D Davies
L Dibden
*BD Dick
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J Duff
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K Forbes
R Girgis
R Goez
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D Hartfield
L Hartling
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M Jetha
C Joynt
H Kolski
M Lang
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P Mandhane
A Newton
L Mitchell
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R Persad
S Persad
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C Rassmussen
*G Rempel
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E Tham
J Turner
T Turner
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RB Wright
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R Arent
J Atallah
*M Bauman
M Belletruitti
*R Blackadar
F Bolduc
A Bruce
*C Bukutu
M Carroll
T Colen
J Conway
S Curtis
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*H El-Hakim
M Hawkes
H Jou
*S Jain-Ghai
NS Khoo
J MacLean
S McKillop
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M Prowse
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S Urschel
M van Manen
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G Andrew
C Baxter
I Buka
P Byrne
A Conradi
A de Caen
S Desai
*CA Hapchyn
A Joffi
RR Moriarty
A Peliowski
E Philippos
L Sim
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N Anton
S Carr
I Dhunnoo
S Escoredo
S Galante
D Garros
L Hendsdon
A Janicka
M Kumar
C Kyriakides
K Lee
L Lequier
M Levinsky
P Lidman
JE Lopatka
A Malinowska
D McConnell
LF McGonigle
K Meier
PM Pierce
EM Rabinovitch
MA Ramji

K Ramlall
J Rutledge
W Sevcik
R Sharon
J Tyeckhan
T Vander Leek
L Wincott
M Witmans
KS Wong
SK Wong
PC Zuberbuhler

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J Ackland-Snow
V Anand
A Antiniuk
M Antunes
G Apostol
R Arent
D Berry
C Bester
E Bolster
I Chapados
R Chatur
T Chibuk
A Currie
M Davidson
A Elawiniya
M Enarson
P Enarson
S Ensenat
A Estey
J Foulds
B Frohlich
S Gallagher
G Garcia Guerra
EW Harris
M Harvey-Blankenship
R Hutchings
M Kundra
V Kumaran
S Lappa
J Lee
RP Lemke
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T Masterson
B McCook
AN Mian
F Mohammed
M Montgomery
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D Pon
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A Rahman
A Reichert
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M Spavor
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WA Szymanski
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D Thomas
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Clinical Lecturers

G Al-Naami
M Bowman
J Brar
M Chan
J Drager
H Dreise
A Dubov
E Estrabillio
E Feidrich
J Kassiri
T Kherani
K Kulkarni

T Kutnikoff
T Ladha
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*LC Grisdale
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AM-W Tse
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*S Bourque
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TM Allen
GB Frank
WP Gati
RM Henderson
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Clinical Professor Emeritus

EE Daniel

Faculty Service Officer

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Assistant Chair, Administration

BA Armstrong

Professors

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*JR Casey
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CI Cheeseman
X-Z Chen
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GD Funk
JJ Greer
S Harvey
AKC Ho
*LW Kline
*RZ Lewanczuk
*BF Mitchell
PV Nguyen
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A Prochazka
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*RT Alexander
E Cordat
EM Leslie
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S Pagliardini
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X Li

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G Baker
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PH Silverstone
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*B Dick
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E Fujiwara
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A Choy
N Mitchell

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J Beach
M Blackman
CA Blashko
AB Bremness
C Buchholz
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JS Rosie
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PJ White

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V Agyapong
D Block
O Cadsky
L Calhoun
C Carter
WT Chimich
J Chiu
M Demas
RJ Dyck
C Els
CK Froelich
DR Ginter
DR Guinhawa
O Hodlevskyy
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M Swanson
DYW Wong
N Youssef

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K Balachandra
R Brown
A Cojocar
M Cummins
O Din
S Dobrofsky
LP Ennis
N Fisher
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M Al-Ghamdi
M Alikouzegehgan
M Astorga
F Bahrey
D Bailey
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L Burbach
J Carr
C Chrenek
J Chu
C Czarniecki
K Devoulyte
SC Duncan
L Elwell
W Fewer
SC Frank
JT Gillese
R Granger
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J Hibbard
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I Khan
B Ko
C Kovithavongs
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H Lari
L Leclair
K Lefko-Singh
K Leicht
L Litwinson
B Lorraine
N Mahil
J Malmborg
O Manuwa
M Marsh
J McCahill
D McManus
S Mitchell
C Morhaliek
K Morin
D Nahirney
L Ostolosky
R Rabeeh
D Rawani
D Read
K Redman
P Rodd
M Salsali
R Seutter
D Sinclair
P Soper
DL Spaner
N Tomy
N Toofaninejad
J Ustina
L War
H Wilkes
C Woods

L Litwinson
B Lorraine
N Mahil
J Malmborg
O Manuwa
M Marsh
J McCahill
D McManus
S Mitchell
C Morhaliek
K Morin
D Nahirney
L Ostolosky
R Rabeeh
D Rawani
D Read
K Redman
P Rodd
M Salsali
R Seutter
D Sinclair
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DL Spaner
N Tomy
N Toofaninejad
J Ustina
L War
H Wilkes
C Woods

L Litwinson
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J Malmborg
O Manuwa
M Marsh
J McCahill
D McManus
S Mitchell
C Morhaliek
K Morin
D Nahirney
L Ostolosky
R Rabeeh
D Rawani
D Read
K Redman
P Rodd
M Salsali
R Seutter
D Sinclair
P Soper
DL Spaner
N Tomy
N Toofaninejad
J Ustina
L War
H Wilkes
C Woods

Professors Emeriti

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GS Hnatko
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R Coutts
N el-Guebaly
*KM Hegadoren
P Nguyen
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B Rowe

A Shuaib
E Starreveld
O Suchowersky
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TC Wild
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H McKim
P Tibbo
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LJ Filipow
T Hillier
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E Lou
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MA Johnson
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T Alexander
W Anderson
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G Askew
J Barrie
I Birchall
MK Hirji
M Hoskinson
M Hutson
S Jackson
H Jen
G Lauf
M O'Keefe
G Raymond
D Reich
WL Ritchie

K Siminoski
G Sterling
DB Vickar
RS Warshawski

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S Appavoo
G Armstrong
J Baron
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A Bistrütz
D Bruce
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C Crawley
S Crowther
H Dhliwayo
J English
J Fingard
S Greenspan
BD Guspie
R Holub
T Horwitz
M Hudson
M Janicki
M Janoski
A Kanigan
WG Keenan
T Kotylak
A Kumar
A Kwan
N Lakis
K Lee
B Ling
C Lummer
R MacEwan
D McNally
S Naik
E Ngan
E Niven

L Paskar
V Patel
R Pereira
EJ Preville
KN Puznak
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P Sarlieve
H Shein
R Sherlock
H Sidhu
M Smerdely
W Sugars
JF Swersky
AS Tang
B Taylor
R Turner
G Van der Merwe
B Ward
D Williams
C Winter
T Yeo

Clinical Lecturers

S Bates
T Black
CG Elias
B Hnatiuk
R Hung
JP Hyde
L Jamieson
S Kitay
J Korzan
P Koziazar
K Leung
C Lywood
V Makis
S Manji
NE Maslo
R McEwen
I McKerlie
D Olson
A Panu
R Pawluk
A Raja
D Receveur
J Rempel

A Rouget
A Samji
M Scott
DA Shamchuk
N Shergill
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E Sonnex
P Spiers
C Torbiak
S Winters

Clinical Instructor

F Kozin

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DB Russell

Nuclear Medicine

**Program Director and
Assistant Clinical Professor**
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Assistant Professor

J Abele

Professor

*AJB McEwan

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M Hoskinson
H Heng
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RS Warshawski

Assistant Clinical Professors

B Ling
AS Tang
B Taylor
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Surgery

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**(Interim) Divisional Director,
Surgical Research**
H El-Hakim

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Undergraduate Education**
J White

**Senior Director, Postgraduate
Education**
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Director, Graduate Studies
T Churchill

**Health Informatics,
Innovation and Technology**
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Administration**
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Professor

AH Walji

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D Livy
C Webber

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*L Satkunam

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DA Begg
K McFadden

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D Freed (Special Continuing)
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J Nagendran

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A Koshal
JC Mullen
*IM Rebeyka
DB Ross
S Wang

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CR Guenther
A Khani-Hanjani
R MacArthur
DL Modry

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M Al Aklabi
H Buchholz
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*DE Johnstone
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CM Norris

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*DL Bigam
DW Birch
CJ de Gara
SM Hamilton
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K Buttenschoen
S Karmali
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JS White
DC Williams
S Widder

Assistant Professors

RJ Brisebois
K Fathimani (special continuing)
R Khadaroo
D Schiller
H Wang (special continuing)

Clinical Professors

HR Chyczij
KD Dabbs
DW Jirsch
S Kilam
*MA Meier
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DO Adams
M Chatenay
PD Davey
*MG Evans
*A Indar
GM Lees
*AVF Sobey
EA Plewes
C Sample
WM Struck

Assistant Clinical Professors

K Alibhai
J Bayne
D Berg
A Borowiec
A Cadili
D Callahan
C Ciona

T Gomes
O Heisler
J Kennedy
JD Matheson
P Miles
D Mok
*SA Morris
D Olson
D Paton-Gay
AVF Sobey
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Clinical Lecturers

I Ahmad
G Alhassani
J Andruchow
R Beekman
A Bennett
P Boora
H Cox
O Farooq
GC Ibbotson
C Jadick
R Jutta
KR Klingbeil
N MacEachern
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D Reddy
MS Sabir
M Shaw
JK Stewart
M Swenia
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KL Bowes
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*TW Theman
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C O'Kelly
T Darsaut
B Krushelnicky (special
continuing)
T Sankar

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KE Aronyk
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MM Chow
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DE Steinke
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Assistant Clinical Professors

RW Broad
AKY Nataraj

Professor Emeriti

KC Petruk
BKA Weir

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Professor

*DM Hedden

Associate Professors

*SK Dulai
NM Jomha

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*A Adesida
E Lou (special continuing)
M Menon

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DWC Johnston
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RA Balyk
JG Cinats
H Jiang
PMK Leung
J Mahood
E Masson
GJ O'Connor
DD Otto
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GD Arnett
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RRM Glasgow
GR Goplen
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LE Hunka
FB Kortbeek

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RE Stiegelmar
J Toreson
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J Bury
D Durand
D Glasgow
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S Kumar
M Lapner
C Panaro
B Pederson
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H Seikaly
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K Ansari
D Cote (special continuing)

D O'Connell (special continuing)
M Osswald
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MW Allegretto
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JD Keohane
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Y Al-Rajhi
N Gomaa
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P Nesbitt
N Rizk

Adjunct Professor

M Zhang

Pediatric Surgery

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Professor

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SK Dulai
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PD Metcalfe
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*KE Aronyk
MJ Moreau
IM Rebeyka
*GH Wilkes

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*H El-Hakim (Special Continuing)
MG Evans
GM Lees
JK Mahood
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Assistant Clinical Professor

Y Alrajhi

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EC Eksteen
S Southon

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Professor

EE Tredget

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A Ladak (Special Continuing)
R Guilfoyle (Special Continuing)

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GL Lobay
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GH Wilkes

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DD Campbell

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DC Edwards
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TF Chong
T Hayashi
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P Schembri
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J Wolffi
J Zhu

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JDM Alton

Adjunct Professors

L McGann
S Nagata

Assistant Adjunct Professor

K Sabri

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G Rayat

Surgical Oncology**Director and Associate Professor**

T McMullen

Professors

C deGara
N Kneteman
RB Moore
H Seikaly
J Shapiro

Associate Professors

DL Bigam
J Harris
JS White

Assistant Professors

E Bedard
E Haase

Clinical Professor

KD Dabbs
G Lavoie

Adjunct Associate Professors

CA Capstick
A Schepansky

Associate Clinical Professor

CD O'Hara

Surgical Research**(Interim) Director and Associate Clinical Professor**

H El-Hakim

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B Agrawal
CC Anderson
GS Korbutt
RV Rajotte
EE Tredget

Associate Professors

F Berry
TA Churchill
G Rayat

Assistant Professors

A Adesida
B Zheng

Faculty Services Officer

LF Zhu

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KP Kowalewski
GW Scott
DC Secord

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P Cheung
MP Mintchev
*RW Yatscoff
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E Bedard

Associate Professors

E Bedard
K Stewart
TL Winton

Assistant Professor

B Laing (Special Continuing)

Assistant Clinical Professors

S Johnson
A Valji

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NM Kneteman

Professors

D Bigam
NM Kneteman
J Shapiro

Assistant Professor

B Laing (Special Continuing)

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GT Todd

Professor

RB Moore

Associate Professors

NE Jacobsen
*D Kiddoo
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KF Rourke
T Schuler

Assistant Professor

A Fairey (Special Continuing)

Clinical Professor

MP Chetner

Associate Clinical Professors

HJ Evans
GJ Gray

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DJ Bochinski
EP Estey
M Hobart
MN Weisler
TA Wollin

Clinical Lecturer

B St Martin

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MS McPhee

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J Konkin

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L Keenan

Director, Global Health (Vacant)**Director, Indigenous Health (Vacant)****Director, Inner City Health (Vacant)****Associate Professor and Director, Rural and Regional Health**

F Janke

Adjunct Professors

P Hamilton
K Solez

K Stobart

Adjunct Associate Professors

L Baydala
K Dong
F Janke
L Keenan
D Nichols

Adjunct Assistant Professors

R Ahmed
J Dacks

Adjunct Academic Colleagues

E Makwarimba

Critical Care Medicine**Director and Professor**

D Zygun

Administrative Officer

J Jubinville

Professors

WD Chin
RTN Gibney
*E Tredget

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SM Bagshaw
PG Brindley
DJ Kutsogiannis

Assistant Professor

S van Diepen

Adjunct Professor

*E Tredget

Adjunct Associate Professor

*L Cheung

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*R Brisebois
*C Karvellas
*R Khadaroo
*S Widder

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*N Gibson
M Jacka
RG Johnston
M Meier
*MH Stephens

Adjunct Clinical Professor

R Mc Dermid

Associate Clinical Professors

J Davidow
D Djogovic
*S Duggan
M Ewanchuk
M Heule
*C Johnston
W Murtha
G Singh
W Sligl
A Sobey
DE Stollery
D Townsend

Assistant Clinical Professors

M Ballerman
M Henry
D Hudson
B Kropelin
A Liu
S Marcushamer
D Markland
*JD Matheson
S Norris
*D Paton-Gay
E Rokosh
A Romanovsky
A Shustack
*M Simmonds
G Suen
C Torok-Both
M Zibdawi

Clinical Lecturers

*P Engels

Health Sciences Laboratory Animal Services**Director**

N Bosvik

Faculty Service Officers

N Bosvik
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RE Uwiera

John Dossetor Health Ethics Centre**Interim Director and Clinical Professor**

*P Byrne

Assistant Professor

*M van Manen

Adjunct Professor

*P Brindley
D Truscott

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T Bailey
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*D Davies
*D Sellman
L Shanner

Clinical Professors

*AR Joffe

Associate Clinical Professors

*C Els
*D Garros

Assistant Adjunct Professors

I Iyioha
H Janz
D Kieser
D Kuyik
A Mardon
S Phelan
*S Wall

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*B Leier
*C Mack
*G Goldsand

Clinical Lecturers

J Gilchrist
C Nolan
V Seavilleklein
E Wasylenko

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W Austin
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Professors

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*C Beaulieu
*D Bennett
*R Camicioli
*F Colbourne
*WF Colmers
*RA Dixon
*S Dursan
*K Fouad
*GD Funk
*T Gordon
*AJ Greenshaw
*JJ Greer
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*S Kar
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*WR Martin

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*P Nguyen

*KG Pearson

*D Pilgrim

*C Power

*A Prochazka

*A Shuaib

*P Silverstone

*PA Smith

*D Treit

*A Tse

*F Tse

*R Wevrick

*D Wylie

*J Yager

*J Yang

Associate Professors

*DW Ali

*CA Boliek

*KM Chan

*D Collins

*B Dick

*CT Dickson

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*A Hudson

*P Hurd

*S Kaloira

*B Kerr

*V Mushahwar

*E Posse de Chaves

*CT Putman

*Z Siddiqi

*A Waskiewicz

*CF Westbury

Assistant Professors

*T Allison

*F Bolduc

*K Butcher

*J Caplan

*J Cummine

*E Fujiwara

*F Giuliani

*S Gosgnach

*K Jones

*B Kerr

*N Malykhin

*C Rasmussen

*Y Sauve

*A Singhal

*S Sijpione

*C Sturdy

*C Webber

*S Wiebe

*I Winship

Adjunct Professors

*JC Lind

*J Norton

Adjunct Assistant Professor

*F Dolcos

Professors Emeriti

*AR Dobbs

*TL Krukoff

*S Kumar

*A Spencer

*RB Stein

Faculty Service Officer

*C Hanstock

Centres/Institutes

www.med.ualberta.ca/

departments

Additional Members of Faculty Council**President and Vice-Chancellor**

IV Samarasekera, O.C.

Representatives

Registrar, University of Alberta
Registrar, Alberta Dental Association

Registrar, Alberta Dental Hygienist Association

One representative, Cross Cancer Institute

One representative, Alberta Medical Association

One representative, Alberta Innovates

One representative, College of Physicians and Surgeons of Alberta

Three representatives, Alberta Health Services (one referral hospital; one from Community Health Services; one from Public Health)

One representative, AHS Mental Health and Addictions Services Dean, Faculty of Nursing

Dean, Faculty of Pharmacy and Pharmaceutical Services
Dean, Faculty of Rehabilitation Medicine

Dean, Faculty of Physical Education and Recreation

One representative, Faculty of Science

One medical librarian

112 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.

Universal Precautions

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

The Faculty of Medicine and Dentistry conducts the following programs:

Medical Programs

- (1) A fully accredited four-year program leading to the degree of Doctor of Medicine. At least two pre-medical years at university are required before admission to this program.
- (2) A program whereby students in the MD program who fulfil specified requirements in research may receive the degree of Doctor of Medicine "with Special Training in Research."
- (3) A four-year program leading to the degree of Bachelor of Science in Medical Laboratory Science, which may be entered after a preprofessional year.
- (4) A program whereby students in Medical Laboratory Science who fulfil specified requirements in research may receive the degree of Bachelor of Science in Medical Laboratory Science "with 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) A program whereby students in the Radiation Therapy Program who fulfil specified requirements may receive the degree of Bachelor of Science in Radiation Therapy.
- (7) 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.
- (8) Programs leading to accreditation by the College of Family Physicians of Canada.
- (9) 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.
- (10) An extensive program of continuing medical education for physicians practising in northern Alberta.
- (11) A program whereby students obtain both the MD degree and PhD degree to prepare them for a career as a clinician-scientist.
See §114 for details of programs of study.
- (12) A program of combined study which permits highly qualified students to earn both the MD and MBA degrees within five years.

Dental and Dental Hygiene Programs

- (1) An accredited four-year program leading to the degree of Doctor of Dental Surgery (DDS). At least two pre-dental years at university are required before admission to this program.
- (2) A Bachelor of Medical Science degree that students registered in the DDS program may apply for after successfully completing the first two years of the DDS program.
- (3) A two-year Advanced Placement program leading to a degree of Doctor of Dental Surgery (DDS). Applicants must possess a dental degree from a dental program recognized by the World Health Organization.

- (4) An accredited two-year program leading to the Diploma in Dental Hygiene. One pre-dental hygiene year at the postsecondary level is required before admission to this program.
- (5) A BSc (Dental Hygiene Specialization) degree which is direct entry upon successful completion of the University of Alberta Dental Hygiene Diploma Program.
- (6) A BSc (Dental Hygiene Specialization) post-diploma degree completion program. Primary requirements are completion of ★30 postsecondary courses and successful completion of an accredited Canadian or international dental hygiene diploma program.
- (7) MSc and PhD degrees in Medical Sciences (Oral Biology, Dentistry and Dental Hygiene).
- (8) MSc and PhD degrees and certificate in Medical Sciences (Orthodontics).
- (9) The Department of Dentistry sponsors a wide variety of continuing dental education opportunities throughout the year through the Continuing Dental Education program. Didactic, clinical and laboratory courses are offered both on campus and occasionally at other sites within the province. Local and visiting speakers of national and international reputation provide continuing education of a high quality.

See §114 for details of programs of study.

112.1 Department of Dentistry Objectives

- (1) To provide an academic and intellectual milieu in a university setting that facilitates all aspects of education and research in dentistry and allied health and scientific fields by
 - a. Attracting, selecting, and motivating the most qualified academic and non-academic staff; and
 - b. Creating a university environment that emphasizes the quality of life for staff and students.
- (2) To contribute to and incorporate 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 deliver undergraduate, postgraduate and graduate oral health education to prepare students to meet the challenges of rapid knowledge and technology advancements, changing demographics, shifting oral health priorities and globalization.
 - a. Attract, select, and then motivate 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. Maintain a dentistry and dental hygiene curriculum that integrates basic medical and dental sciences, behavior and social sciences, dental clinical sciences, community and preventive dentistry, hospital dentistry, and practice management;
 - c. Incorporate recent concepts, materials, techniques, advances, and research in all areas; and reflect the existing and projected provincial, national, and international oral health needs;
 - d. Maintain 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. Graduate 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 serve as a partner with the private-practice community, community health centres and hospital clinics to address the problem of some groups having less access to care - including those with specific health care needs, low-income groups, under-represented minorities and those who live in underserved rural and urban communities.

112.2 Affiliated Hospitals and Institutions

112.2.1 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 Alberta Health Services. 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 Edmonton Clinic Health Academy buildings, Li Ka Shing Centre for Health Research Innovation, the Katz Group – Rexall Centre for Pharmacy and Research, the Zeidler Ledcor Centre and the Cross Cancer Institute and the Kaye Edmonton Clinic.

112.2.2 Family Medicine Rural Teaching Sites

The Department of Family Medicine engages over 33 rural communities in undergraduate and postgraduate education initiatives.

112.2.3 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.

112.2.4 University of Alberta Family Medicine Centres

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

112.2.5 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 and fellows 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.

112.2.6 University of Alberta Satellite Dental Clinics

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

112.2.7 Cross Cancer Institute

The Cross Cancer Institute is a tertiary cancer facility operated by Alberta Health Services (AHS) (the provincial health authority for cancer) that provides cancer services for northern Alberta and houses the Department of Oncology. The AHS and the University of Alberta conducts its cancer research and training programs through an affiliation agreement.

112.2.8 Tom Baker Cancer Centre

The Tom Baker Cancer Centre is a tertiary cancer facility operated by Alberta Health Services (AHS) (the provincial health authority for cancer) in Calgary that provides cancer services for southern Alberta and houses the Department of Oncology. The AHS and the University of Calgary conducts its cancer research and training programs through an affiliation agreement.

112.3 Registration and Licensing

112.3.1 DDS Degree

The Department of Dentistry of the University is accredited by the Commission on Dental Accreditation of Canada.

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

Senior students of dental programs approved by the Commission on Dental Accreditation of Canada 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 licensing 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.

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

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

112.3.3 Registration to Practise

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

112.3.4 BSc in Radiation Therapy

The Canadian Association of Medical Radiation Technologists (CAMRT) is the organization that provides the national certification examination and competency profile. Students are eligible to access the CAMRT examination upon completion of all program requirements. Under the Alberta Health Professions Act, radiation therapists must be licensed by the regulatory college, Alberta College of Medical Diagnostic and Therapeutic Technologists (ACMDTT) to practice in Alberta. The ACMDTT endorses the CAMRT national examination as the certifying examination.

After successful completion of the CAMRT national certification examination, graduates are eligible to access the American Registry of Radiologic Technologists' (ARRT) certification examination.

112.4 Finance

112.4.1 DDS Degree

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

Note: The figures are approximate for 2014-2015 and do not include GST; figures are subject to change without notice.

Additional Costs for DDS Students	Year 1	Year 2
Electronic Textbook	4,000	3,000
Equipment & Instrumentation Rental	7,500	9,800
Dental Students Association	75	75
	Year 3	Year 4
Electronic Textbook	2,000	1,000
Equipment Rental	9,500	9,600
Dental Students Association	75	75
National Dental Examining Board (refer to www.ndeb.ca)		N/A

112.4.2 Dental Hygiene Diploma

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

Note: The figures are approximate for 2014-215 and do not include GST; figures are subject to change without notice.

Additional Costs for DH Students	Year 2	Year 3
Electronic Textbook	2,000	1,000
Equipment & Instrumentation Rental	5,500	8,800
Dental Students Association	75	75
Professional Exam Fee (refer to www.ndhcb.ca)	N/A	650

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

112.4.3 Bachelor of Science (Dental Hygiene Specialization)

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

Note: The figures are approximate for 2014-2015 and do not include GST; figures are subject to change without notice.

Additional Costs for Students	Year 4
Books	200
Equipment & Instrumentation Rental	500
Dental Students Association	75

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

Additional Costs for Students

Books	200
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112.4.5 Advanced Placement Program (DDS)

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

Note: The figures are approximate for 2014-2015 and do not include GST; figures are subject to change without notice.

Additional Costs for Students	Year 1	Year 2
Electronic Textbook	3,500	0
Equipment & Instrumentation Rental	20,500	16,700
Dental Students Association	75	75
National Dental Examining Board (refer to www.ndeb.ca)		N/A

112.4.6 MD Degree

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

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

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

Details of scholarships and other financial assistance for medical students are available in the Awards section of this Calendar or by contacting the MD Program Office, Admissions and Undergraduate Medical Education, 1-002 Katz Group Centre for Pharmacy and Health Research; phone (780) 492-6350.

112.4.7 BSc in Radiation Therapy

Tuition fees for the program can be found in §22.2. Note: The figures are based on 2012-2013; figures are subject to change without notice.

National Certification Examination fees are payable to the Canadian Association of Medical Radiation Technologists at www.camrt.ca/certification/international/. It is mandatory that all students are student members of the Alberta College of Medical Diagnostic and Therapeutic Technologists (ACMDTT) and must pay the student membership fee at www.acmdtt.com/Registration/StudentApplicants.aspx.

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, 1-002 Katz Group Centre for Pharmacy and Health Research; phone (780) 492-6350.

112.5 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 the Shinerama, a program dedicated to raising money for Cystic Fibrosis research; 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 Dentistry. 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 annual curling bonspiel, 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 Dentistry of the Faculty of Medicine and Dentistry and participates in a number of awards to dental students. In addition, the Association provides limited funds to finance specific projects in the Department and honors convocating students and graduates of the silver anniversary class.

113 Admission and Academic Regulations

113.1 Admission

See §§13 and 14 for general admission requirements to the University. See §16 for specific admission information for the DDS, Dental Hygiene, MD, BSc in Medical Laboratory Science and BSc in Radiation Therapy programs.

113.1.1 Combined Program for the Degrees of MD and PhD

Highly qualified students wanting to pursue a career of teaching and research in basic medical science or clinical medicine may enrol in a program of

approximately six to eight years leading to the acquisition of both an MD and a PhD degree.

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

Students interested in such a program may obtain further information from the Office of Research, Faculty of Medicine and Dentistry, 2-13 Heritage Medical Research Centre.

113.1.2 Combined Program for the Degrees of MD/MBA

The Faculty of Medicine and Dentistry and the Faculty of Business offer a program of combined study which permits highly qualified students to earn both the MD and MBA degrees in five years.

Each student must apply separately to the Faculty of Medicine and Dentistry (for admission into the MD program) and at any time in the first two years of the MD program, may apply to the Faculty of Graduate Studies and Research (for admission into the MBA program).

113.2 Academic Standing and Graduation

113.2.1 DDS Degree

The program leading to the DDS degree is conducted in four years (1, 2, 3 and 4) under the direction of the Faculty committees (see §114.2).

- (1) No credit will be granted for courses completed in preprofessional years and no course exemptions will be allowed.
- (2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Intervention Policy).
- (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
- (4) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.
- (5) On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
- (6) **Reexaminations**
 - a. Students are allowed reexamination privileges only in courses that are failed.
 - b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses or components of DDS 509, 529, 545, 565. Students with more than two (2) failed courses or components of DDS 509, 529, 545, 565 in any academic year will not be allowed reexamination privileges.
 - c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical or laboratory course but passes the clinical or laboratory portion. Reexamination is not permitted in courses that are entirely clinical or laboratory or in clinical or laboratory components of courses that include both didactic and clinical or laboratory components.
 - d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry

Academic Standing and Promotion Committee before the student is permitted to take the reexamination.

- e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
 - g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
 - h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
 - i. Reexaminations in all years of the DDS program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee.
 - j. Over the program, reexamination privileges will not exceed five reexaminations. In DDS 509, 529, 545, 565 all components must be successfully completed and each reexamination in a component of these courses will compose one of the five reexamination privileges.
 - k. See §23.5.5 for further information regarding when reexaminations are not permitted.
- (7) Academic Standing: Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee.
 - a. No student may proceed to any subsequent year of the DDS program and will be required to withdraw unless they have passed all courses for that academic year.
 - b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.
 - (8) Regulations Concerning Repetition of a Year because of Academic Failure
 - a. No student will be allowed to repeat any year of the DDS program with the exception of fourth year students who may be granted the status of "Special Category Repeating Student". See below for details.
 - b. Special Category Repeating Student: a student who fails to meet some requirements in the final-year of the program may be designated a Special Category repeating student. In order to be considered as a Special Category repeating student in fourth-year Dentistry, the student must
 - i) have clinical deficiencies in no more than two clinical disciplines and have been advised that the deficiency could be corrected within one term of instruction; and
 - ii) have successfully completed all written examinations in the DDS program.
 Further information regarding the Special Category repeating student may be obtained from the Department Office. Students repeating the final year are not eligible for awards.
 - (9) Voluntary Withdrawal: A student wanting to temporarily withdraw registration from the DDS program is required to make written application to the Associate Dean of the Faculty of Medicine and Dentistry, 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. a review, by the Faculty, of the reasons for withdrawal and of the student's academic record.
 - b. availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:
 - i) students who have met normal promotion requirements
 - ii) Faculty-approved repeating students and students returning after voluntary withdrawal, in order of academic standing
 - c. The length of time the student interrupts studies leading to the DDS degree must not exceed two years in total.
 - (10) Faculty Advisor: At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty and/or Department.
 - (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 and College. 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 and College. (Amendments to the Code of Student Behaviour occur throughout the year. The official version of the Code of Student Behaviour, as amended from time to time is housed on the University Governance website at www.governance.ualberta.ca.)

- (12) **Medical Testing and Immunization Requirements:** To ensure, insofar as possible, both student and patient safety, before orientation, or the Preclinical Assessment for Advanced Placement students, the Faculty requires immunization against, or proof of immunity to, poliomyelitis, diphtheria, tetanus, measles, mumps, rubella, and hepatitis B.

As well, a varicella titre test and a tuberculin skin test are required in the first year of the program and should be performed by the University of Alberta Health Centre or other appropriate medical facility.

For students in any Department of Dentistry undergraduate clinical program, including Dentistry, Dental Hygiene and Advanced Placement, where there is a greater potential for transmission of bloodborne pathogens between students and patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:

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 or other appropriate medical facility. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B "e" antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B "e" or Hepatitis B viral DNA is positive the offer of acceptance will be withdrawn and registration in any Department of Dentistry undergraduate clinical program will not be completed.

For those applicants who test negative to Hepatitis B surface antigen and are registered in any Department of Dentistry undergraduate clinical 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 or other appropriate medical facility. 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 *Standard Precautions* when there is potential of exposure to human blood or body fluids.

Human Immunodeficiency Virus (HIV) and Hepatitis C Virus (HCV): The data indicates that transmission of the human immunodeficiency virus (HIV) and Hepatitis C Virus (HCV) from a health care worker (HCW) to a patient in a health care setting is extremely rare, 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 and HCV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV and HCV is not mandatory at this time.

Note: For updates on changes to medical testing and immunization refer to the Faculty Office.

- (13) Certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required.

113.2.2 DDS Advanced Placement Program

The program leading to the DDS Advanced Placement is conducted in a minimum of two years (see §114.3, Years 3 and 4 of the DDS Program).

- (1) No credit will be granted for courses completed prior to admission and no course exemptions will be allowed.
- (2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Intervention Policy.)
- (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
- (4) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are

also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.

- (5) On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
- (6) **Reexaminations**
 - a. Students are allowed reexamination privileges only in courses that are failed.
 - b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses or components of DDS 545, 565. Students with more than two (2) failed courses or components of DDS 545, 565 in any academic year will not be allowed reexamination privileges.
 - c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical or laboratory course but passes the clinical or laboratory portion. Reexamination is not permitted in courses that are entirely clinical or laboratory, or in clinical or laboratory components of courses that include both didactic and clinical or laboratory components.
 - d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
 - e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
 - g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
 - h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
 - i. Reexaminations in both years of the Program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee.
 - j. See §23.5.5 for further information regarding when reexaminations are not permitted.
- (7) **Academic Standing:** Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee.
 - a. No student may proceed to next year of the Program and will be required to withdraw unless they have passed all courses for that academic year.
 - b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.
 - c. Students in the DDS Advanced Placement Program are not eligible for awards.
- (8) **Regulations Concerning Repetition of a Year because of Academic Failure:** Students in the DDS Advanced Placement Program will not be permitted to repeat a year.
- (9) **Voluntary Withdrawal:** A student in the DDS Advanced Placement Program who chooses to withdraw, forfeits the position and will not be readmitted.
- (10) **Faculty Advisor:** At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty and/or Department.
- (11) All students registered in the DDS Advanced Placement Program are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association and College. This registration permits the practice of dentistry within the confines of the formal dental curriculum. Students in the program are required to adhere to the professional code of ethics of the Alberta Dental Association and College (Amendments to the

Code of Student Behaviour occur throughout the year. The official version of the Code of Student Behaviour, as amended from time to time is housed on the University Governance website at www.governance.ualberta.ca.

(12) **Medical Testing and Immunization Requirements:** See §113.2.1(12).

(13) Certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required.

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

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

(1) Certification in CPR (Cardiopulmonary Resuscitation) at the Health Care Provider Level is required and provided by the Program.

(2) Students entering the Dental Hygiene program may be granted credit for courses completed that are deemed by the Program Director, in consultation with the course coordinator and the Chair of the Department Academic Standing Committee, to be demonstrably equivalent to courses for which credit is being sought.

Students carrying an academic load reduced by ★6 or more from the full course load of their academic year will not be eligible for awards.

(3) The Associate Dean/Department Chair, or Supervisor acting on behalf of the Associate 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 Associate Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Intervention Policy.)

(4) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established within the Faculty and the University. Students must satisfactorily complete all components of all courses.

(5) Recommendations for promotion and graduation are based on a grade of at least D in each subject and a GPA of at least 2.0.

(6) The notation of "With Distinction" is awarded to a graduating student in the diploma program who has obtained an average GPA of 3.5 or higher in the second and third years of the program with a minimum GPA of 3.3 in either year and no failing grades over the entire program.

The notation of "With Distinction" is awarded to a graduating student registered in a minimum of ★24 in the BSc (Specialization in Dental Hygiene) program who has obtained an average GPA of 3.5 or higher in the third and fourth years of the program with a minimum GPA of 3.3 in either year and no failing grades over the entire program.

(7) **Reexaminations:** See §23.5.5.

a. Students are allowed reexamination privileges only in courses that are failed.

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

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

d. A student repeating a year is not allowed reexamination privileges in that year of the program.

e. 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.

f. 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.

g. The weight of reexamination is at least that of the final examination, but may be more (at the discretion of the Program Director in consultation with the course coordinators).

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

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

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

k. During the Dental Hygiene Diploma program, reexamination privileges will not exceed four reexaminations or a maximum of ★18. For students continuing on to the Dental Hygiene BSc program, the total reexamination privileges will not exceed five reexaminations or a maximum of ★20.

(8) Reexamination Procedure

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

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

(9) Students are permitted to repeat second-year and third-year Dental Hygiene only in exceptional cases as determined by the Faculty Academic Standing and Promotion Committee. Repeating students are considered for awards, if taking a full course load.

(10) A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee acting on the advice of the Department concerned. A grade of at least C+ is required for Dental Hygiene courses. Students carrying an academic load reduced by ★6 or more from the full course load of their academic year will not be eligible for awards.

(11) A Special Category repeating third-year Dental Hygiene Diploma student or Special Category repeating Dental Hygiene BSc student

- has achieved a minimum GPA of 2.7 in the year requiring repetition;
- has clinical/practicum deficiencies in no more than two clinical courses and is advised that the deficiency could be corrected within a four-month period of instruction; and
- has successfully completed all written examinations in the Dental Hygiene program.

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

- review, by the Faculty of the reasons for withdrawal and the student's academic record;
- availability of a place, within quota, in the class to which the student is seeking readmission. Priority will be 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 Dental Hygiene Diploma or Bachelor of Science (Dental Hygiene Specialization) programs must not exceed two years in total.

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

(14) **Medical Testing and Immunization Requirements:** See §113.2.1(12).

113.2.4 MD Program

The program leading to the MD degree is conducted in four Years (1, 2, 3 and 4), under the direction of the Faculty committees. (See §114.5.)

- (1) No credit will be granted for courses completed in preprofessional years and no course exemptions will be allowed.
- (2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Intervention Policy.)
- (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.
 - After completing year three requirements, students must successfully complete an objective structured clinical examination (OSCE) as the first component of MED 540, comprehensive examination. This first exam covers material presented in the first three years of the program.
At the end of fourth year, students will then be required to successfully complete the second component of MED 540 comprehensive examination by completing a knowledge-based assessment. This exam will cover material presented in all four years of the program
All other program requirements must be successfully completed in order to be eligible to take the second examination knowledge-based assessment.
 - Students must pass the comprehensive examination before being promoted or allowed to graduate.
- (6) Students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
- (7) **Reexaminations**
- Students are allowed reexamination privileges only in courses that are failed.
 - 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).
 - Reexamination privileges will be granted to students failing only one course in any year of the program.
 - Reexamination of MED 540 Comprehensive Examination: Students who fail the comprehensive examination will be granted a reexamination.
- (8) **Academic Standing:** Final decisions regarding academic standing and promotion to the next year of graduation are made by the Faculty Academic Standing and Promotion Committee.
- No student may proceed to any subsequent year of the medical program and will be required to withdraw unless they have passed all courses for that academic year.
 - Students who do not pass all Year 3 and 4 courses, excluding MED 540 (comprehensive exam) will not be allowed to write the comprehensive exam and will be required to withdraw.
- Students who fail more than one course in a Year of the program will be required to withdraw from the program.
- (9) **Regulations Concerning Repetition of a year because of Academic Failure:**
- 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.
- (10) **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.
- (11) **Faculty Advisor:** At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor shall be determined by the Faculty.
- (12) All students registered in the MD program are required by provincial legislation to be registered in the Educational Register of the Alberta College of Physicians and Surgeons. This registration permits the practice of medicine within the confines of the formal medicine curriculum. Students in the MD program are required to adhere to the professional code of ethics of the Alberta College of Physicians and Surgeons. (Amendments to the Code of Student Behaviour occur throughout the year. The official version of the Code of Student Behaviour, as amended from time to time is housed on the University Governance website at www.governance.ualberta.ca.)
- (13) **Medical Testing and Immunization Requirements:**
- To ensure, insofar as possible, both student and patient safety, the Faculty requires immunization against, or proof of immunity to, poliomyelitis, diphtheria, tetanus, pertussis, measles, mumps, rubella, and hepatitis B. As well, varicella titre and a two-step tuberculin skin test is required in the first year of the program and should be performed by the University of Alberta Health Centre.
- For students in Medicine, where there is a greater potential for transmission of bloodborne pathogens from students to patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:
- Hepatitis B:** Hepatitis B surface antigen testing will be performed by the University Health Centre on all students after acceptance into the program. For those students who test negative for Hepatitis B surface antigen (HbsAg), Hepatitis B vaccination will be required. An exception will be made for those for whom it is medically contraindicated or for those individuals who have proof of prior vaccination and test positive for antibody to Hepatitis B surface antigen (anti-HBs). After vaccination, students will receive a second test to determine if they have converted to produce the appropriate antibody titre. If they have not converted they will receive a second vaccination and again be tested. Those students who then fail to convert will be counselled as to their potential risk status during training and future practice. All students who test negative for Hepatitis B surface antigen after vaccination will be tested again for surface antigen and Hepatitis B viral DNA at the end of second year, prior to starting clinical placements.
- For students who test positive for Hepatitis B surface antigen their "e" antigen (HbeAg) status and the presence of Hepatitis B viral DNA will be determined. If they are found to be positive for the "e" antigen or the viral DNA they will be counselled as to their risk of infecting patients and they will be required to follow a modified clinical training program.
- The decision of the Faculty as to the modifications to the training program may be appealed to the Practice Review Board (§23.8.2 Practicum Intervention Policy).
- At all times students will follow *Universal Precautions* when there is potential of exposure to human blood or body fluids.

Human Immunodeficiency Virus (HIV) and Hepatitis C Virus (HCV): The data indicates that transmission of the human immunodeficiency virus (HIV) and Hepatitis C Virus (HCV) from a health care worker (HCW) to a patient in a health care setting is extremely rare, 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 and HCV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV and HCV is not mandatory at this time.

Note: For updates on changes to medical testing and immunization refer to the Faculty Office.

113.2.5 BSc Program in Medical Laboratory Science

- (1) **Academic Standing:** Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty of Medicine and Dentistry Academic Standings and Promotion Committee based on recommendations of the Medical Laboratory Science Academic Standing Committee.
- (2) Promotion in the Medical Laboratory Science program depends on passing grades in all subjects of the previous year with a minimum GPA of 2.0, 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 2.0 who have a majority of unsatisfactory technical ratings are permitted to proceed into Phase II on probation. Students in Phase II who are on probation must withdraw if they receive an unsatisfactory technical rating in any one course. Students entering Phase II with a majority of pass ratings from all the Phase I Medical Laboratory Science courses are assessed as having satisfactory standing.

Phase II

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

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

- (3) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Intervention Policy.)
- (4) The Division of Medical Laboratory Science Technical Standards Policy defines the necessary knowledge, skills, professional behaviours, and attitudes required of students. Please see the Medical Laboratory Science website for further information.
- (5) Promotion in the post-professional certificate BSc program in Medical Laboratory Science depends on passing grades in all subjects of the previous year with a minimum GPA of 2.0.
- (6) **Reexamination:**
 - a. Students are allowed reexamination privileges only in courses that are failed.
 - b. Students must achieve a GPA of 2.0 inclusive of the failed course in order to be considered for reexamination.
 - c. The Division of Medical Laboratory Science Academic Standings Committee and the Faculty of Academic Standing and Promotion Committee must approve reexamination.
 - d. If reexamination is approved, satisfactory completion of a remedial program may be required before the student is permitted to take the reexamination.

- (7) A student permitted to repeat a course or an entire phase must withdraw unless a minimum average grade of 2.7 is obtained on the repeated work.
- (8) Any student whose technical work or academic performance is deemed unsatisfactory may be required to withdraw from the Faculty.
- (9) 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.

Human Immunodeficiency Virus (HIV) and Hepatitis C Virus (HCV): The data indicates that transmission of the human immunodeficiency virus (HIV) and Hepatitis C Virus (HCV) from a health care worker (HCW) to a patient in a health care setting is extremely rare, 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 and HCV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV and HCV is not mandatory at this time.

Note: For updates on changes to medical testing and immunization refer to the Faculty Office.

113.2.6 BSc Program in Radiation Therapy

The following apply to students in the Bachelor of Science in Radiation Therapy.

- (1) **Grades**
 - a. 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. Students are informed at the beginning of each course how grades are to be determined.
 - b. Students must satisfactorily complete all components of all courses.
- (2) **Promotion and Academic Performance**
 - a. Progression in the program is term by term. Accordingly, all students in a particular co-hort of the program normally should be registered in the same courses in each term (see §114.7.) Students will not normally register in any core (i.e., non-elective) courses from a particular term of the program until they have satisfactorily completed core courses from the previous term of the program.
 - b. **Academic Performance:** Assessment of academic performance is conducted at the end of each student's registration in the Fall/Winter Terms.
 - i) **First-Class Standing:** Awarded to a student who obtains a GPA of 3.5 or above and passes all courses while enrolled in the full normal academic/clinical course load after the completion of the Fall/Winter Terms.
 - ii) **Satisfactory Standing:** For promotion, a student must pass all courses and obtain a minimum GPA of 2.7.
 - iii) **Conditional Standing:** Whenever a student receives a final grade of less than a B- in a Radiation Therapy Program course, the student's total academic and clinical performance in the program will be reviewed. This review will be considered in determining continuation in the program.
 - iv) **Required to Withdraw:**

Any student who

 - 1) fails more than one academic course per program year (program year includes Fall, Winter, and Spring/Summer Terms)
 - 2) fails any clinical course;
 - 3) is unable to obtain a minimum GPA of 2.7 in any term;

- c. **Probation:** Students who have been required to withdraw and who have successfully appealed that decision will be placed on Probation and required to repeat the full program year.

To clear probation and qualify for promotion, the student must achieve Satisfactory Standing in all terms during the probationary year. Students who fail to do so will be required to withdraw. Any student in a probationary year who fails a course in Fall Term will be required to withdraw immediately and subsequent registration will be cancelled.

Only one year of probation is allowed while registered in the BSc in Radiation Therapy program.

(3) **Clinical Performance:**

- a. A student who is absent more than two clinical days in any one clinical course may need to make up the lost time before being allowed to continue in the program.
- b. The Program Director, or designate acting on behalf of the Program Director, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of a practicum/clinical placement if the Program Director or designate has reasonable grounds to believe that this is necessary in order to protect the public interest. (See §23.8.2 Practicum Intervention Policy).
- c. All students enrolled in the Radiation Therapy program are bound by, and shall comply with the Professional Codes of Ethics governing the profession and practice of Radiation Therapy.
- i) "Professional Codes of Ethics" means the current Canadian Association of Medical Radiation Technologists (CAMRT), Alberta College of Medical Diagnostic and Therapeutic Technologists (ACMDTT), and all other relevant professional codes and practice standards for Radiation Therapists.
- ii) It is the responsibility of each Radiation Therapy student to obtain, and be familiar with, such Professional Codes of Ethics and practice standards, and their amendments as may be made from time to time. (See §30.3.3 of the Code of Student Behaviour). Amendments to the Code of Student Behaviour occur throughout the year. The official version of the code of Student Behaviour, as amended from time to time, is housed on the University Governance website at www.governance.ualberta.ca.

- (4) **Voluntary Withdrawal:** A student wanting to temporarily withdraw registration from the Radiation Therapy Program is required to make written application to the Program Director of the Radiation Therapy Program, stating the reasons for withdrawal and the intended period of withdrawal. Each request will be considered on a case by case basis. Readmission to the Radiation Therapy Program following voluntary withdrawal will be assessed on a case by case basis. Readmission is not guaranteed due to quota. If the length of time the student interrupts their studies exceeds two years, the student will not be granted readmission into the Radiation Therapy Program.

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

(6) **Reexamination:** See §23.5.5

- a. Reexamination is not permitted in clinical courses.
- b. Students who fail more than one academic course in any full program academic year (Fall, Winter, Spring/Summer Terms) are not allowed reexamination privileges.
- c. The Director of the Radiation Therapy Program must approve reexaminations.
- d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Radiation Therapy Program Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
- e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a term are received and recorded.
- f. The weight of reexamination is at least that of the final examination.
- g. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
- h. Any student who, after reexamination and/or evaluation fails to meet promotion/graduation requirements is deemed to have failed the year and will not be allowed to continue in the program.

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

(7) **Graduation:**

- a. **Academic Performance for Graduation:** Students must achieve Satisfactory Academic Standing or First Class Standing in their final year of the program; successfully complete all program requirements; and present a graduation average of at least 2.7. The graduation average is a cumulative measure of a student's grade points obtained while registered in the program in all years and terms, including Spring/Summer. It is the quotient of (a) the total number of grade points earned by a student in courses credited to the degree and (b) the total weight of those courses.
- b. The notation of "With Distinction" is awarded to a graduating student who has obtained an average GPA of 3.5 or higher and no failing grades over the entire program.

(8) **Clinical Placement Policies and Requirements:** All students must comply with all Clinical Placement Policies and Requirements.

- a. Clinical Placements can be made at any cancer centre in Alberta that provides radiation therapy services (Cross Cancer Institute in Edmonton, Tom Baker Cancer Centre in Calgary, Jack Ady Cancer Centre in Lethbridge, or in future sites in Red Deer and Grande Prairie. Students are responsible for their transportation to clinical placements and for the costs of travel, living and accommodations.
- b. Students must purchase a lab coat and may wish to purchase uniforms for the clinical courses during the program.
- c. Valid certification of CPR (Cardiopulmonary Resuscitation) at the Healthcare Provider Level s required and must be maintained throughout the program. A CPR-Healthcare Provider certificate is valid for one year from the date of the course. Evidence of recertification in each subsequent year is required.
- d. **Technical Standard:** Students whose skills and abilities change during their studies must declare this change to the program designate for clinical placements immediately. The program will attempt to provide reasonable accommodation, however the student may be required to withdraw from the program if this is not possible.
- e. **Medical Testing and Immunization:** To ensure, insofar as possible, both student and patient safety, the Faculty requires immunization against, or proof of immunity to, poliomyelitis, diphtheria, tetanus, pertussis, measles, mumps, rubella, and hepatitis B. As well varicella screening and a two-step tuberculin skin test in required in the first year of the program and should be performed by the University Health Centre. Requirements: See §113.2.6.
- f. **Hepatitis B Virus (HBV):** Hepatitis B antigen testing will be performed by the University Health Centre on all students after acceptance in to the program. Students who test negative for Hepatitis B surface antigen (HbsAg), Hepatitis B vaccination will be required. An exception will be made for those for whom is medically contraindicated or for those individuals who have proof of prior vaccination and test positive for antibody to Hepatitis B surface antigen (anti-HBs). After vaccination, students will receive a second test to determine if they have converted to produce the appropriate antibody titre. If they have not converted they will receive a second vaccination and again be tested. Those students who then fail to convert will be counselled as their potential risk status during training and future practice. For students who test positive for Hepatitis B surface antigen their "e" antigen (HbeAg) status and the presence of Hepatitis B viral DNA will be determined. If they are found to be positive for the "e" antigen or the viral DNA they will be counselled as to their risk of infecting patients.
- g. **Human Immunodeficiency Virus (HIV) and Hepatitis C Virus (HCV):** The data indicates that transmission of the human immunodeficiency virus (HIV) and Hepatitis C (HCV) from health care worker (HCW) to a patient in a health care setting is extremely rare, 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 and HCV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV or HCV is not mandatory at the time.
- Note:** For updates on changes to medical testing and immunization refer to the Faculty Office.
- h. **N-95 Respirator Fit Testing:** Students are required to be fit tested for N 95 respirators. Check with the Program office for the procedures to

obtain this fit testing. The associated costs are the responsibility of the student.

- i. Criminal Records Check: Students should be aware that under the Alberta Protection of People in Care Act, they will be required to satisfy a criminal records check, including a Vulnerable Sector Check. Refer to §23.8.3.
- j. The Program Director, or Designate acting on behalf of the Program Director, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Program Director, or Designate has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Intervention Policy.)

113.3 Appeals and Grievances

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

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

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

The University Code of Student Behaviour describes a range of nonacademic and academic offences deemed unacceptable and for which a student may be penalized. The official version of the Code of Student Behaviour, as amended from time to time is housed on the University Governance website at www.governance.ualberta.ca. Additionally, the Faculty of Medicine and Dentistry has filed with the Campus Law Review Committee a list of offences representing gross professional misconduct.

114 Programs of Study

114.1 Protection for Persons in Care

Students should be aware that under the *Protection for Persons in Care Act* all students going to any clinical placement or rotation in Alberta are required to complete a Police Information Check (also known as a Criminal Record Check, Security Clearance Check, or Police Clearance), which must include a Vulnerable Sector Check. The clinical practice site will determine the criteria for acceptance/denial of a placement. Students are responsible for having a criminal record check completed upon receiving conditional admission to the Faculty.

Students who have concerns related to their ability to provide a clear Police Information Check should consult with the Faculty. The ultimate responsibility for ensuring that students meet the requirements of clinical agencies lies with the students. Other background checks may be required by a clinical agency, such as a child intervention record check. Students will be advised if any additional background checks are required by a clinical agency. See §23.8.3 for more information on the general requirements concerning Police Information Checks and the fees associated with them.

Should a student subsequently be charged or convicted while enrolled in the program, the student must advise the Faculty. Students should be aware that having an unclear Police Information Check can prevent them from securing a clinical placement and hence, preclude them from graduating from the program and/or becoming licensed to practice.

114.2 DDS Degree

General Information

Curriculum

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

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

Senior students are assigned to the Dental Clinic and the Department of Dentistry at the 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.

See §205 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.

Orientation

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

Course Requirements

Year 1

DMED 511	★3	5 weeks
DMED 512	★6	7 weeks
DMED 513	★6	6 weeks
DMED 514	★11	14 weeks
DDS 509	★15	39 weeks
DDS 510	★4	2-6s-0/week
DDS 514	★3	0-0-60
DDS 518	★5	54-0-6

Year 2

DDS 506	★5	6 weeks
DDS 507	★9	7 weeks
DDS 508	★2	2 weeks
DDS 520	★4	2-6s-0/week
DDS 523	★3	7 weeks
DDS 529	★25	39 weeks
DDS 532	★5	60-0-0
DDS 533	★3	30-0-0
INT D 410	★3	0-32.5-0

Year 3

DDS 541	★1	15-0-0
DDS 545	★52	39 weeks
DDS 547	★1	15-0-0
DDS 555	★1	15-0-0

Year 4

DDS 565	★50	30 weeks
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114.3 DDS Advanced Placement Program

General Information

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

Curriculum for Advanced Placement Students

Prior to entry into the program, students will be required to participate in and complete DDS 829 Introduction to DDS Advanced Placement. Upon completion of DDS 829, students will follow the third year DDS curriculum, including assignments to treat patients in the University's Department of Dentistry clinics under the supervision of the clinical faculty.

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

Course Requirements

Year 1		
DDS 541	★1	15-0-0
DDS 545	★52	39 weeks
DDS 547	★1	15-0-0
DDS 555	★1	15-0-0
Year 2		
DDS 565	★50	30 weeks

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

General Information

The Department of Dentistry offers a Diploma in Dental Hygiene and a Bachelor of Science (Dental Hygiene Specialization). The Dental Hygiene Program enables students to acquire knowledge and develop skills so that they may assume responsibility in clinical practice, health promotion, education, community health care, and research.

The dental hygienist is an integral member of the health care team and strives to improve oral health by providing preventive services and educational information 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, administering anaesthetic, taking impressions for study models, and polishing amalgam restorations. Educational information may include nutritional and oral hygiene counselling and community dental health program planning, implementation, and evaluation.

The dental hygienist with a baccalaureate degree is a leader in developing and initiating oral health interventions that prevent and control oral disease and promote oral wellness. The ultimate goal of a baccalaureate program is to educate professionals who contribute significantly to the improvement of oral health.

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

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

In addition to the Diploma curriculum consisting of a preprofessional year and years 2 and 3, Bachelor of Science (Dental Hygiene Specialization) students will complete a fourth year. During the fourth year, students will learn the foundation of research, expand their knowledge in health promotion

utilizing principles and theories of learning, health care organization theory and interdisciplinary ethics. In preparation for the leadership and management roles, skills are enhanced through the didactic and dental hygiene clinical program. Additionally, the program will provide students with advanced practice opportunities.

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

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

Orientation

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

Course Requirements

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

Diploma in Dental Hygiene

Year 2		
BIOCH 200	★3	39-0-0
D HYG 201	★2	26-0-2
D HYG 202	★2	26-0-2
D HYG 207	★3	39-0-0
D HYG 208	★3	39-0-0
D HYG 209	★3	39-0-0
D HYG 212	★5	0-0-144
D HYG 213	★3	0-99c-3
D HYG 221	★3	39-0-0
D HYG 230	★1	13-0-0
D HYG 240	★2	28-0-15
MMI 133	★3	39-0-0
OBIOL 202	★4	60-0-2
PHYSL 210	★6	78-0-0

Year 3		
D HYG 313	★8	0-396-0
D HYG 316	★3	39-0-0
D HYG 317	★3	39-0-0
D HYG 320	★2	26-0-0
D HYG 322	★3	39-0-0
D HYG 326	★2.5	35-3s-0
D HYG 329	★2.5	0-75c-0
D HYG 340	★1	0-24c-0
D HYG 386	★2.5	13-0-39
OBIOL 302	★3	39-0-0
OBIOL 305	★3	42-0-0
PMCOL 300	★2	28-0-0

Bachelor of Science (Dental Hygiene Specialization)

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

Year 4		
D HYG 413	★3	0-108s-0
D HYG 414	★3	39-0-0
D HYG 417	★3	39-0-0
D HYG 418	★3	39-0-0
D HYG 422	★3	39-0-0
D HYG 431	★3	39-0-0
D HYG 440	★3	39-0-0
D HYG 468	★3	39-0-0
Two Options	★6	78-0-0

(a minimum of one at the 300- or 400-level with the approval of Program Director) A maximum of ★3 from PAC courses is permitted.

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

A Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion program will prepare diploma dental hygiene graduates to participate more fully and productively in a health care system that emphasizes prevention, primary care, accountability, quality and cost effectiveness. The dental hygienist with a baccalaureate degree is a leader in developing and initiating oral health interventions that prevent and control oral disease and promote oral wellness,

and in facilitating change itself. The ultimate goal of a baccalaureate program is to prepare students to contribute significantly to the improvement of oral health goals in current and future health care delivery systems by preparing well-qualified professionals with knowledge, skills, and awareness at the baccalaureate degree level.

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

Program A

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates of 1998-2001.

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

D HYG 417	★3	39-0-0
D HYG 418	★3	39-0-0
D HYG 431	★3	39-0-0
D HYG 440	★3	39-0-0
Two Options	★6	78-0-0

(at the 300- or 400-level with the approval of Program Director) A maximum of ★3 from PAC courses is permitted.

Program B

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates (prior to 1998 as well as 2008 and forward) and dental hygiene graduates from other programs.

This program is intended for University of Alberta graduates prior to 1998 as well as 2008 and forward and diploma dental hygiene graduates from accredited dental hygiene programs in Canada and internationally.

The degree completion program consists of the following courses:

D HYG 417	★3	39-0-0
D HYG 418	★3	39-0-0
D HYG 422	★3	39-0-0
D HYG 431	★3	39-0-0
D HYG 440	★3	39-0-0
D HYG 468	★3	39-0-0
(or equivalent health research course)		
Four options	★12	156-0-0

(with the approval of the Program Director, two at the 300- or 400-level) A maximum of ★3 from PAC courses is permitted.

Program C

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates (Year 2002 – 2007).

Graduates of the University of Alberta Dental Hygiene Program of 2002-2007 will be required to complete the following courses:

D HYG 417	★3	39-0-0
D HYG 418	★3	39-0-0
D HYG 422	★3	39-0-0
D HYG 431	★3	39-0-0
D HYG 440	★3	39-0-0
D HYG 468	★3	39-0-0
(or equivalent health research course)		
SOC 210	★3	39-0-0
(or equivalent statistics course)		
Three options	★9	117-0-0

(with approval of Program Director, two at the 300- or 400-level) A maximum of ★3 from PAC courses is permitted.

114.5 MD Degree

General Information

The program leading to the MD degree is conducted over four years. The curriculum committee is responsible for the overall design, management and evaluation of a coherent and coordinated curriculum.

Years 1 and 2 are the pre-clerkship years in which the material is presented in a series of system-based courses. Each course presents the material in a reasoned progression from basic information to clinical application. There are several 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 clerkship years, commonly called the clinical clerkship. During the clerkship, each student must maintain a record of the number and variety of his or her clinical experiences, in order to ensure that the objectives of the clerkship have been met. Year 3 includes a Link course of 2 weeks, followed by clinical rotations totaling about 49 weeks. During this latter period there are also some opportunities for elective courses and vacation. Year 4 is a senior clinical year of approximately 34 weeks, which includes clinical rotations, electives, and a vacation period. Electives in the clerkship must be organized so that each student has an elective experience in a minimum of three different disciplines, each of which shall take place for a minimum of two weeks. Approved elective programs are available in diverse fields of medical science and practice.

Orientation

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

Course Requirements

Year 1

- (1) DMED 511 (★3) (5 weeks)
- (2) DMED 512 (★6) (7 weeks)
- (3) DMED 513 (★6) (6 weeks)
- (4) DMED 514 (★11) (14 weeks)
- (5) MED 516 (★6) (16 hours/week)
- (6) MED 517 (★1) (12 hours)
- (7) INT D 410 (★3) (0-32.5-0)

Year 2

- (1) MED 520 (★5) (9 hours)
- (2) MED 521 (★5) (6 weeks)
- (3) MED 522 (★6) (7 weeks)
- (4) MED 523 (★6) (7 weeks)
- (5) MED 524 (★9) (7 weeks)
- (6) MED 525 (★3) (4 weeks)
- (7) MED 526 (★6) (12 hours/week)
- (8) MED 527 (★1) (12 hours)
- (9) MED 529 (★3) (4 weeks)

Year 3

- (1) F MED 546 (★8) (8 weeks)
- (2) MED 531 (★3) (5 weeks)
- (3) MED 543 (★36) (36 weeks)
- (4) MED 546 (★8) (8 weeks)
- (5) MED 547 (★3) (3 weeks)
- (6) OB GY 546 (★8) (6 weeks)
- (7) PAED 546 (★6) (8 weeks)
- (8) PSYCI 546 (★6) (6 weeks)
- (9) SURG 546 (★6) (6 weeks)

Year 4

- (1) MED 540 (★5) (9 hours)
- (2) MED 541 (★2) (4 weeks)
- (3) MED 555 (★3) (3 weeks)
- (4) MED 557 (★10) (10 weeks)
- (5) MED 558 (★3) (3 weeks)
- (6) MED 556 (★6) (3 weeks)
- (7) SURG 556 (6 weeks)

114.6 MD with Special Training in Research

This program is for students looking for in-depth exposure to research during medical school. (Each candidate must spend a minimum of 24 weeks [two consecutive summers] of active involvement in scientific research and present oral and written reports to fulfil the requirements for the MD with Special Training in Research.) The program is monitored by the MD Research 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, 2-13 Heritage Medical Research Centre. Successful students receive recognition on their transcripts and degrees through the notation "with Special Training in Research."

114.7 Degree of BSc in Radiation Therapy

General Information

The Department of Oncology in the Faculty of Medicine and Dentistry at the University of Alberta offers a undergraduate degree in Radiation Therapy. The program is designed to develop a competent, critical thinking, reflective radiation therapist who effectively contributes to the care of the patient with cancer and who is committed to excellence in professional practice.

Program design support learners' progression from knowledge through skill acquisition to synthesis and competency. It also enables the development towards achievement of the described professional qualities of a radiation therapist by thinking, communicating, and acting in increasingly sophisticated ways. This degree prepares graduates to pursue post-baccalaureate or graduate programs that may lead to advanced practice opportunities.

In addition, students will learn the foundations of research and engage in group research projects during the clinical component of the fourth year of the degree program. For admission information See §16.9.10.

Orientation

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

Program of Courses

Year 2

- (1) ONCOL 253
- (2) ONCOL 233
- (3) CELL 201
- (4) RADTH 205
- (5) PHYSL 210
- (6) ONCOL 243
- (7) ANAT 200 (or STATS 151 if Anatomy is already taken.)
- (8) ONCOL 234
- (9) ONCOL 254
- (10) ONCOL 255
- (11) RADTH 260

Year 3

- (1) ONCOL 335
- (2) RADTH 301
- (3) ONCOL 355
- (4) ANAT 305
- (5) RADTH 328
- (6) ONCOL 210
- (7) ONCOL 310
- (8) ONCOL 356
- (9) ONCOL 306
- (10) INT D 410
- (11) RADTH 360
- (12) RADTH 401

Year 4

- (1) RADTH 460
- (2) RADTH 411
- (3) RADTH 461

114.8 Degree of BSc in Medical Laboratory Science

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 all competency based objectives, 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.

Orientation

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

Program of Courses

Phase I

- (1) MLSCI 200 (★3)
- (2) MLSCI 230 (★3)
- (3) MLSCI 235 (★1)
- (4) MLSCI 242 (★3)
- (5) MLSCI 243 (★3)
- (6) MLSCI 250 (★3)
- (7) MLSCI 262 (★3)
- (8) MLSCI 263 (★3)
- (9) MLSCI 270 (★2)
- (10) PHYSL (★6)
- (11) Arts Option (★3)

Phase II— Clinical Rotation (See Note 1)

- (1) BIOCH 200 (★3)
- (2) BIOCH 330 (★3)
- (3) MLSCI 320 (★3)
- (4) MLSCI 330 (★5)
- (5) MLSCI 340 (★5)
- (6) MLSCI 350 (★3)
- (7) MLSCI 360 (★5)
- (8) MLSCI 370 (★3)

Phase III (See Note 2)

- (1) ★12 chosen from MLSCI 420, 430, 460, 466, 475, 481, MMI 426 or 427 or 405 or 415
- (2) MLSCI 480 (★3)
- (3) MLSCI 410 (★3)
- (4) Project course: MLSCI 491 (★6) or MLSCI 409 (★3) and Science option (★3)
- (5) INT D 410 (★3)
- (6) 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 and Dentistry.
- (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.

114.9 Post-Professional Certificate BSc in Medical Laboratory Science

General Information

The Faculty of Medicine and Dentistry offers a program for degree completion for Canadian Society for Medical Laboratory Science general certificate holders. Because of the changing nature of the field, there is a practice requirement that must be met (see Admission).

The program requires ★76 additional study post-diploma and ★60 must be completed through the University of Alberta.

Program of Courses

Year 1

- (1) BIOL 107 (★3)
- (2) CHEM 101 (★3)
- (3) CHEM 102 (★3)
- (4) CHEM 164 or 261 (★3)
- (5) CHEM 263 (★3)
- (6) MLSCI 244 (★3)
- (7) MLSCI 245 (★3)
- (8) MLSCI 320 (★3)
- (9) STAT 141 or 151 or 337 (★3)
- (10) Approved MLS options (★6)

Spring/Summer

- (1) BIOCH 200 (★3)
- (2) BIOCH 330 (★3)
- (3) Arts options (★6)

Year 2

- (1) MLSCI 410 (★3)
- (2) MLSCI 480 (★3)
- (3) Project course MLSCI 491 (★6) or MLSCI 409 (★3) and Science option (★3)
- (4) ★12 chosen from MLSCI 420, 430, 460, 466, 475, 481, MMI 405 or 426 or 427 or 415
- (5) INT D 410 (★3)
- (6) Arts option (★3)

114.10 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 3.5 in courses taken in the first and second phases of the program and will have completed STAT 141, 151, 337, or equivalent. Students must spend one summer (16 weeks) and complete a ★6 research course offered by the Division. All students are supervised by a staff member who has shown commitment to the project and to the financial support of the student for the summer months. The program is monitored by the MD Research Committee. Successful students receive recognition on their transcripts and degrees through the notation "With Honors in Research." For information, contact the Director, Division of Medical Laboratory Science, 5-411 Edmonton Clinic Health Academy.

114.11 Degree of Bachelor of Medical Science

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

- (1) Two or more years of social sciences, general sciences, physical sciences or engineering, with successful completion of undergraduate course work totaling no less than ★60 with one academic year of ★30.
- (2) Successful completion of Year 1 and 2 of the DDS or MD program.

Provisions

- (1) None of the courses mentioned above have been used for credit toward another degree.
- (2) The final two years must be taken at the University of Alberta.
- (3) All courses have been successfully completed.

114.12 Graduate Studies

The Faculty of Medicine and Dentistry offers Master's, PhD and MD/PhD degrees. Details on these programs can be found in the Graduate Programs section of the Calendar, listed by department.

114.13 Continuous Professional Learning

Continuous Professional Learning provides practicing physicians with the opportunity to remain up-to-date in knowledge, skills and attitudes. The division currently offers the Video-conference program, the Urban Program and PCN customized programs for urban physicians. The division is also involved in the Physician Learning Program, a collaboration project with the University of Calgary. The Physician Learning Program is an evidence-based, practice specific learning tool. Using provincial data sources to capture both perceived and unperceived learning needs, physicians can become informed about their individual needs and receive guidance and assistance in the pursuit of educational activities in light of the evidence. The Division enjoys the support of the College of Family Physicians of Alberta, Alberta Health, and the Alberta Medical Association (<http://albertapl.ca>)

Inquiries about these programs should be directed to the Associate Dean, Continuous Professional Learning, 2-590 Edmonton Clinic Health Academy, University of Alberta, Edmonton, AB T6G 1C9 [[www.med.ualberta.ca/programs/continuingeducation\(cpl\)](http://www.med.ualberta.ca/programs/continuingeducation(cpl))].

114.14 Continuing Dentistry Education

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

114.15 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:

114.15.1 Primary Certification Programs

Anaesthesiology and Pain Medicine
 Anatomical Pathology
 Cardiac Surgery
 Community Medicine
 Dermatology
 Diagnostic Radiology
 Emergency Medicine
 General Pathology
 General Surgery
 Haematological Pathology
 Head and Neck Surgery
 Internal Medicine
 Medical Microbiology
 Neurology (Adult and Paediatric)
 Neurosurgery
 Nuclear Medicine
 Obstetrics and Gynaecology
 Occupational Medicine
 Ophthalmology
 Orthopaedic Surgery
 Otolaryngology
 Paediatrics
 Physical Medicine and Rehabilitation
 Plastic Surgery
 Psychiatry
 Radiation Oncology
 Urology

114.15.2 Subspecialty Certification

Cardiology (Adult and Paediatric)
 Critical Care Medicine
 Developmental Paediatrics
 Endocrinology (Adult and Paediatric)
 Gastroenterology (Adult and Paediatric)
 Geriatric Medicine
 Haematology
 Infectious Diseases (Adult and Paediatric)
 Medical Oncology
 Neonatal Perinatal Medicine
 Nephrology (Adult and Paediatric)
 Occupational Medicine
 Paediatric Emergency Medicine
 Paediatric Hematology/Oncology
 Respiriology (Adult and Paediatric)
 Rheumatology

114.15.3 Special Programs

Clinician Investigator Program
Palliative Care Medicine

Inquiries regarding these programs should be directed to the Associate Dean, Postgraduate Medical Education, 2-76 Zeidler Ledcor Centre, University of Alberta, Edmonton, AB T6G 2E1.

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, 2283 St Laurent Blvd Ste 110, Ottawa, ON K1G 3H7. Certificate of Special Competence program 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, #2700 Telus Plaza, 10020-100 Street NW, Edmonton, AB T5J 0N3.

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.

114.16 Postgraduate Dental Education

114.16.1 Specialty Enhancement for General Dentistry Education

The Specialty Enhancement for General Dentistry Education is designed to enhance the diagnostic, treatment planning and clinical skills of general dentists in key specialty disciplines so that they can successfully deliver a broader range of oral health care services in rural areas where specialist services are not available.

This general residency program is one calendar year in length, July 1 through June 30. Three DDS graduates are accepted each year, those accepted primarily being DDS graduates in the year in which they begin the residency.

Under the direction of dental specialists and general practitioners, residents will provide care to patients who cannot be seen by undergraduate dental students because of the complexity and/or scope of the required Treatment. Through seminar sessions and clinical teaching, the areas of endodontics, periodontics, prosthodontics, oral surgery, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry are taught. Residents will also be involved in the University of Alberta Hospital Dental Service, providing clinical treatment to patients during scheduled daytime clinics, evening and weekend emergency walk-in clinics, and on-call.

An important additional component of this residency program is off site rotations to under served areas of this province.

114.16.2 General Practice Residency

The General Practice Residency is designed to enhance the diagnostic, treatment planning and clinical skills of general dentists in management of patients with complex systemic health issues, as well as key specialty disciplines so that they can successfully deliver a broader range of oral health care services.

This general practice residency program is one calendar year in length, July 1 through June 30. Three recent DDS graduates are accepted each year, generally graduates of accredited Canadian dentistry programs.

Under the direction of dental specialists and general practitioners, residents will provide care to patients who frequently are not seen in community dental

practices for reasons of systemic disease or disability. Patients are treated at University of Alberta Hospital during scheduled day-time hours, during a walk-in emergency clinic evenings and week-ends, and occasionally on-call. Residents also provide patient care at the University of Alberta School of Dentistry in the Edmonton Clinics and other affiliated hospitals. Through seminar sessions and clinical teaching, the areas of endodontics, periodontics, prosthodontics, oral surgery, dental implants, pediatric dentistry, hospital dentistry, conscious sedation, advanced oral diagnosis and treatment planning, oral medicine, orofacial pain and advanced general dentistry are taught.

An important additional component of this residency program will include health care rotations by each resident to an underserved area of this province.

114.17 Combined Program for the Degrees of MD and PhD

The MD/PhD combined program is intended for exceptional students who are seriously committed to a career in medical research. Highly qualified students wishing to pursue a career of teaching and research in either basic medical science or in clinical medicine may enrol in a program of approximately six years' duration leading to the acquisition of both an MD and a PhD degree from the University of Alberta. To be eligible for the combined program, students must already have been admitted to the MD program. Students are admitted to the combined program on the recommendation of the MD/PhD Committee.

Students entering the MD program from a preprofessional medical or a bachelor's program, and who are interested in applying to the MD/PhD program, should do so in their first year of medical school. For these students, admission into the program begins after completion of the second year of the MD program. Alternately, students who are transferring from a University of Alberta graduate program to the MD program are eligible to enrol immediately in the combined program. The most common route is for students to complete the first two years of the MD program, apply for and be admitted into the PhD program, and when the PhD is completed, return to the final two years of the MD program. Students pursuing the combined program will be assessed fees for both the MD and the PhD programs.

Students interested in such a program may obtain further information from the Office of Research, Faculty of Medicine and Dentistry, 2-13 Heritage Medical Research Centre, University of Alberta, (780) 492-9721, janis.davis@ualberta.ca.

115 Courses

Faculty of Medicine and Dentistry courses are listed in §231, Course Listings, under the following subject headings:

Anaesthesiology and Pain Medicine (ANAES)
Anatomy (ANAT)
Biochemistry (BIOCH)
Biomedical Engineering (BME)
Cell Biology (CELL)
Dentistry (DDS)
Dentistry (DENT)
Dentistry/Medicine (DMED)
Dental Hygiene (D HYG)
Family Medicine (F MED)
Laboratory Medicine Pathology (LABMP)
Medical Genetics (MDGEN)
Medical Laboratory Science (MLSCI)
Medical Microbiology and Immunology (MIMI)
Medicine (MED)
Medicine, Interdepartmental (INT D and MED)
Neuroscience (NEURO)
Obstetrics and Gynaecology (OB GY)
Oncology (ONCOL)
Ophthalmology (OPHTH)
Oral Biology (OBIOL)
Paediatrics (PAED)
Pharmacology (PMCOL)
Physics/Biomedical Engineering (PH BE)
Physiology (PHYSL)
Postgraduate Medical Education (PGME)
Psychiatry (PSYCI)
Public Health Sciences (PHS)
Radiology and Diagnostic Imaging (RADDI)
Surgery (SURG)