

Faculty of Medicine and Dentistry

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110 The Faculty of Medicine and Dentistry

Faculty Vision

To be nationally and internationally recognized leaders investing in education, research and service, making important contributions to Health.

Faculty Mission Statement

Dedicated to the optimization of health through scholarship and leadership in our education programs, in fundamental and applied research and in the prevention and treatment of illness in conjunction with Alberta Health Services, the Alberta Cancer Board and other partners.

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 responsive to the health care needs of our communities.

Undergraduate Medical Education: www.med.ualberta.ca/education/ugme/mission.cfm

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

Strategic Initiatives

- (1) To provide the best environment for continuous learning and inquiry.
- (2) To be international leaders in advancement and dissemination of knowledge.
- (3) To create, in partnership with Alberta Health Services, an environment whereby health services delivery and the academic functions of teaching and research are optimized and of highest quality.
- (4) To create an environment which promotes respect, creativity, and recognition of all staff, students and residents.
- (5) To establish and maintain partnerships that advance our mission.
- (6) To maximize and efficiently utilize resources to achieve our mission.

Values

- (1) **Scholarship:** We discover, interpret and disseminate new knowledge that promotes and restores health.
- (2) **Respect, Compassion and Caring:** We use these ideals to guide how we teach our students, care for our patients and work with our colleagues.
- (3) **Integrity:** We carry out our responsibilities to our patients, our students and our colleagues, maintaining highest moral standards.
- (4) **Excellence:** We conduct our teaching, research and patient care, in accordance with the highest international standards.
- (5) **Partnership:** We work with our partners in education, research and health care for the greater good of the community.
- (6) **Stewardship:** We use our resources wisely.

Faculty Overview

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

| | |
|--|-------|
| Number of Departments | 20 |
| Number of Divisions | 7 |
| Number of Academic Staff | 1,192 |
| Number of Faculty | 646 |
| Number of Faculty Service Officers | 13 |
| Number of Administrative Professional Officers | 18 |
| Number of other | 515 |
| Number of Clinical Staff | 1,341 |
| Number of Support Staff | 1,037 |
| Numbers of Students and Residents | |
| Medical Students | 565 |
| Medical Residents | 808 |
| Dental Students | 138 |
| Dental Residents | 5 |
| Dental Hygiene Students | 110 |
| Medical Laboratory Science Students | 64 |
| Graduate Students: | 491 |

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 and Medical Laboratory Science. 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 \$148 million annually in peer-reviewed research funding. The Faculty enjoys national and international recognition in the form of numerous Fellows of the Royal Society (London and Canada), 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

Dean
TJ Marrie

Vice-Dean
J Ginsberg (on leave)

Vice-Dean (Acting)
V Yiu

Executive Director
V Wulff

Associate Deans

L Breault
F Brenneis
C de Gara
G Elleker
B Fisher
J Jhamandas
J Konkin
D Rayner

Assistant Deans

R Damant
A Grace
P Hamilton
R Hayward
T Krukoff
M Moreau
M Sagle
G Taylor
L Mereu (Acting)

Director, Equity and

Associate Professor
L Breault

Faculty Service Officer

D James

Administrative Officer

M Taylor

Faculty Departments

Anesthesiology and Pain Medicine

Chair and Professor
BA Finegan

Professors

*AS Clanachan
BT Finucane

Associate Professors

RA Kearney
S Rashiq
B Tsui

Assistant Professors

S Gupta
B Dick
D Dillane
B Kerr

Clinical Professors

DJ Cubitt
R Gregg
R Hudson

Associate Clinical Professors

RG Bergstrom
R Brown
M Buss
MXM Coughlan
DB DuVal
LM Entwistle
DP Gray
CR Guenther
LR Hatch
LJ Huston
RG Johnston
B Knight
JT Lilley
BE Marchak
WJ Murtha
S Paterson
GA Perez
RF Seal
TW Yeh

Assistant Clinical Professors

J Belzil
BJ Bucyk
D Cave
PG Cisar
MR Cohen
Y Csanyi-Fritz
BP Delbecq
A Doyle
JM Dupuis
S Eeson
KA Faccenda
V Ford
D Gamez
M Gregoret-Quinn
AS Guest
DA Hardy
R Haugen
LY Huang
MS Jacka
V Jensen
DT Jolly
R Kelly
JP Koller
B Kropelin
P Kulkarni
ER Lazar
J Lujic
IA MacDonald
P Matthey
DA Mercereau
JA Moir
D Muzyka
S Nathan
CJ Noble
A Nunes
SA Olson
P Paetsch

BZ Petriv
S Rabuka
B Ramsey
SJ Reid
H Reine
ZS Saleh
H Sandhu
L Scheeler
S Scott
M Simmonds
C Tang
BP Unger
DH Wiebe

Clinical Lecturers

M Auld
L Baron
MH Bercovich
C Cave
JR Charlton
A Fitzmaurice
J Hamilton-Klinck
JC Hrazdil
B MacNicol
E Man
L McGowan
L Nadeau
L Nadwidny
OJ Schneider
I Wachowski

Biochemistry

Chair and Professor
M Michalak

Assistant Chair, Administration
C Iwanicka

Professors

RC Bleackley
DN Brindley
*J Casey
*CE Cass
MJ Ellison
L Fliegel
JNM Glover
*R Godbout
CFB Holmes
MNG James
BD Lemire
*L Li
A MacMillan
RN McElhaney
MC Schultz
JC Stone
BD Sykes
*DL Tyrrell
DE Vance
JH Weiner

Associate Professors

C Fernandez-Patron
L Schang
L Spyropoulos

D Stuart
H Young

Assistant Professors

*S Bakash
R Fahlman
IS Goping
*B Hazes
J Lemieux
N Touret
K Wilson

Professors Emeriti

WA Bridger
JS Colter
RS Hodges
CM Kay
NB Madsen
VH Paetkau
P Scott
LB Smillie

Faculty Service Officers

R Milner
A Wright
J Parrish

Biomedical Engineering**Chair and Professor**

RE Burrell

Professors

*KM Bagnall
*R Lambert
*KG Pearson
*A Prochazka
*RV Rajotte
*JF Wolfaardt

Associate Professors

C Beaulieu
MA Gorassini
AH Wilman
*THA El-Bialy

Assistant Professors

*F Dolcos
*DJ Emery
D Gross
S Kalra
*L Le
*RB Stein
RB Thompson

Professors Emeriti

PS Allen
D Fenna
DJ Griffiths
TR Overton
RE Snyder

Adjunct Professors

S Adee
A Amirfazli
D Bennet
CJ Backhouse
J Carey
J Chen
MR Doschak
F Fenrich
KE Jones
G Kawchuk
ZJ Koles
D Li
EHM Lou
W Moussa
M Olson
NG Shrive
H Uludag
L Unsworth
B Wright
RJ Zemp

Cell Biology**Chair and Professor**

RA Rachubinski

Administrative Officer

KM James

Professors

RB Campenot
*WJ Gallin
T Hobman
TL Krukoff
P Melancon
*D Pilgrim
Z Wang
R Wozniak

Associate Professors

L Berthiaume
G Eitzen
*R Lehner
V Mushahwar
M Pasdar
A Simmonds

Assistant Professors

J Dacks
*S Hughes
P LaPointe

Professor Emeritus

RS Smith

Dentistry**Acting Chair and Professor**

NC Milos

Administrative Officer

Vacant

Professors

DIN Dederich
FM Eggert
LW Kline
PW Major
WT McGaw
E Peters
JFL Pimlott
KM Polukoshko
PD Schuller
DA Scott

Associate Professors

C Cable
S Cobban
S Compton
E Edgington
T El-Bialy
H Nainar
U Nassar
DJ Pehowich
HK Tan

Assistant Professors

M Amin
G Heo

Clinical Professors

B Gitzel
EA Krause
K Lung
E McIntyre
SK Patterson
D Pettigrew
W Preshing
C Revell
J Ritchie
P Schulte
JA Scott
EW Tunis
KW Wong
CC Yu
DC Yu

Clinical Associate Professors

M Armstrong
BS Bennett
C Biggs
C Blackman
J Borrelli
N Chalk
LC Chan
R Cox
R Croutze
R Easton
CK Fialka-Eshenko
C Flores-Mir

P Gainer
S Ganatra
D Gotaas
M Howell
B Kucey
EWL Kwan
R Labahn
M Lah
S Lah
VP Lee

T Lee-Knight
W Leung
J Lockau
C MacDonald
DJ MacDougall
LR Moore
BR Neumann
M Parfitt
PL Pierce
W Primrose
E Steinbring
TR Stevenson
W Swanson
MT Taciuk
N Thie
J Valentine
WG Wesner
P Williamson
P Yeung
G Zenith

Clinical Assistant Professors

K Bapoo-Mohamed
DH Bédard
L Best
AH Brouwer
T Carlyle
J Cornish
W Dhol
W Dobrovolsky
D Eliuk
J Eliuk
A Fiorillo
K Habib
A Hoh
E Jang
L Kamelchuk
D Kelner
R Kreutz
B Kula
M Kun
J Leakey
S Lockwood
D Lunardon
W MacKinnon
M Miller
D Neale
N Palmer
M Pokroy
R Schäfers
A Senior
A Sheppard
S Switzer
U Szkudlarek
J Thomas
T Vankka
GP Wendell
D Wong
P Wooding
J Yacyszyn
C Yue
HC Yu

Clinical Instructors

S Aneca
S Ash
S Bakker
M Bennett
K Bieniak
M Bochinski
N Bornau
R Brisbane
D Burnett
R Caldwell
J Caudette
A Chan
K Cheng

C Chiu
C Chomay
A Chomik
D Correia
J Czarnobaj
J Dalmer
T Dawson
A Dekterov
W Dewar
H Dhaliwal
E Diduch
D Dietz
D Doderai
K Dombro
G Edwards
K Farrell
C Fletcher
K Hart
J Haraphongse
C Heath
I Hernandez
B Hoyano
C Huber
L Hursin
J Jacob
N Kim
P Kimos
M Knoefel
R Krim
R Kulshrestha

E Law
C Lee
S Lee
K Lim
D Lobb
I Mah
V Mak
L Mar
T Massini
P McIntyre-Schemerhorn
I McKee
J McLean
D Meador
G Mohr
M Moldez
J Ng
J Nijjer
R Nijjer
B Nordstrom
J Picard
R Pratt
Y Prokop
M Radmanovich
R Reiter
S Renoir
D Ricioppo
R Ridley
C Sheremata
M Sihota
V Spicer
K Sperling
M Susoeff
R Tepy
B Ulmer
T Verhaeghe
J White
M Wilson
J Wittchen
H Woo
J Wood
P Wu
D Yeung

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M Susoeff
R Tepy
B Ulmer
T Verhaeghe
J White
M Wilson
J Wittchen
H Woo
J Wood
P Wu
D Yeung

Professors Emeriti

BK Arora
RV Blackmore
DM Collinson
HM Dick
HE ElBadrway
AD Fee
KE Glover
WT Harley
PD MacRae
RC McClelland
WC Meyer
CJ Osadetz

JW Osborn
DM Paton
CH Pearson
JM Plecask
GW Raborn
AJ Simons
GH Sperber
NR Thomas
GW Thompson
NK Wood

Emergency Medicine**Chair and Professor**

BR Holroyd

Professors

M Bullard
B Rowe
*JP Steiner
*L Francescutti

Associate Professors

GE Cummings
*PW Yoon

Assistant Professor

*D Nichols

Clinical Professor

TD Sosnowski

Associate Clinical Professors

MA Cherniwchan
*D Mackey
W Paton
DL Shragge
S Sookram

Assistant Clinical Professors

D Bond
HA Borkent
MJ Boulanger
JJ Brown
R Cunningham
S Dong
CGM Evans
J Franc-Law
T Graham
R Hansen
P Jain
R Kruhlak
K Lam
R Lee
M Long
M Mrochuk
AR Murray
SA Poplawski
DC Perry
RA Purser
C Rabuka
M Rico
L Sim
W Sevcik
A Ushko
AF Walker

Adjunct Associate Clinical

Professor

I Vicas

Clinical Lecturers

BL Abel
D Ariano
N Barclay
D Barer
J Bitangcol
RG Brown
E Chang
J Chang
S Chow
K Cromwell
TM Curry
R Daloise
B Deane
P Delaney
B Diner
K Dong
B Edgecumbe
S Flanagan
K Foster

D Ha
S Haque
K Harris
D Hoshizaki
D Hryciuk
RJ Ibach
S Jones
A Lund
G Lung
R MacDonald
C MacGougan
M MacKenzie
S MacLachlan
K Mangan
J McKague
K McLelland
G Meikle
J Mohler
W Molberg
M Moss
A Naismith
DW Neilsen
K Neilson
LK Nguyen
R Oland
P Parks
CL Peterson
K Peterson
E Rabin
D Reid
S Ross
A Rothney
D San Agustín
G Scheirer
R Scheirer
L Sharma
L Shenfield (Hillier)
R Sherman
R Singh
F Soibelman
A Stagg
TF Stetsko
DF Stewart
W Thirk
F Voon
D Watrich
C Westover
R Wittmeier
R Woods
R Yao
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AK Yeung
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TF Stetsko
DF Stewart
W Thirk
F Voon
D Watrich
C Westover
R Wittmeier
R Woods
R Yao
A Yeung
AK Yeung
M Young

Adjunct Assistant Professors

*L Evered
*K Kelly
J Sullivan
L Tchir
B Windwick

Family Medicine**Chair and Professor**

GR Spooner

Administrative Officer

M Perrault

Professors

NR Bell
A Cave
RG Chaytors
MG Donoff
P Humphries
DG Moores
I Steiner
J Triscott

Associate Professors

FR Brenneis
R Brownoff
BM Dobbs
S Hughes
J Konkin
EH Krikke
J Parmar
D Ross
P Yoon

Assistant Professors

GM Allan
C Cardinal
M Cave
L Charles
AS Khera
D Klein
C Korownyk
M Levy
D Manca
D Nichols
J Peng
G Salvalaggio
S Schipper
LL Smith
L Steblecki
J Stickney-Lee

Clinical Professors

NP Costigan
K Gardener
H Hays
*TD Sosnowski

Associate Clinical Professors

FW Armstrong
SK Aung
AE Ausford
G Blais
*MA Cherniwan
I Colliton
N Flook
N Hans
HR Hindle
M Hurlburt
F Janke
D Kent
MR Kolber
TD Kolotyluk
CJ Lord
DS Mackey
EW Papp
*WF Patton
M Reedyk
EP Schuster
*DL Shragge
A Taube
JR Tilley
H Woytiuk
H Zirk

Assistant Clinical Professors

M Abbasi
JB Armstrong
PMD Armstrong
AL Bailey
DH Banmann
JE Bell
*DW Bond
*HA Borkent
*M Boulanger
*JJ Brown
PA Caffaro
SW Chambers
JG Chiu
WE Clelland
DJ Cook
*R Cunningham
*CGM Evans
TF Flanagan
K Ghali
AC Gigg
CR Gingles
JG Gokiert
*T Graham
*MS Gross
JJ Hankinson
RB Kaasa
*RT Kruhlak
D LaBuick
GA Lamoureux
R Laughlin
*MJ Long
SE Low
KAH Lundgard
LM Ma
BK McPeak
DP Miller

AM Milne-Epp

*AR Murray
R Naiker
N Nanda
*SA Poplawski
R Purser
TF Ranieri
JG Reilly
*M Rico
BD Ritchie
JM Robinson
PJA Ruitter
WE Schneider
S Simon
MR Smith
A Spak
RM Stepanko
*AF Walker
RJ Wedel
ML Wesner
BRB Whittaker

Clinical Lecturers

*BL Abel
KJM Abel
S Ahmadienejad
G Ahmed
T Ali
JR Andreiuk
DM Andriashek
J Anzarut
H Bablitz
B Bahlr
T Bakshi
*NG Barclay
*DJ Barer
P Barrett
JB Barsky
K Bennett
L Bernier-Lycka
S Beshai
MM Bodmer
DW Boettger
M Boorman
M-C Bouchard
MA Bowland
BW Boyko
TB Bray
J Bromley
TJ Byers
MJ Caffaro
R Carter
J Caufield
DB Cave
HS Chana
AYL Chiu
L Coetzee
JE Craig
RF Crowe
H Cuddihy
C Cull
M Currie
JA D'Costa
K Darcel
W Dawson
*BC Deane
LD Dujon
RH Dunbar
MS Eckhart
*B Edgecumbe
LR Edwards
SM Fairgrieve-Park
*SD Flanagan
SC Ghitler-Mannes
JM Godel
RA Halse
VM Hanlon
AC Harmse
M Hauptfleisch
BC Hayden
TL Heisler
ES Holmes
*DJ Hryciuk
PA Jansen
AJ Jarema
CG Johnston
S Karpman

J Kassam
A Khan
DG Killick
DW Korzenowski
MW Langer
DM Leung
PJ Lewis
B Li
MR Lidkea
CC Lopaschuk
BL Lorrain
E Lundall
DW MacIver
*K Mangan
A Marin
PA Marner
BW Martin
RA Martin
GG Mazurek
K McBeath
M McCall
T McKeown
*JA Mohler
*W Molberg
EM Mori-Torres
NJ Morison
*MG Moss
JM Muller
JD Murphy
DL Myhre
ED Ndovi
S Needham
*KD Neilson
RAJ Neuls
RL Oishi
BL Oldale
C Otto
P Palma
P Paludet
DJ Paras
LD Pernisie
B Pezeski
TJ Phillips
CA Phillpot
AJD Pope
R Rajput
G Ramsay
*DA Reid
JD Ritchie
M Rose
JC Routledge
DR Ryan
S Samuel
M Sapozhnikov
JJ Saunders
*GD Scheirer
G Schwalfenberg
N Shahoo
*RK Sherman
HS Sidhu
RJ Simard
A Singh
H Sternberg
*TP Stetsko
*DF Stewart
JM Stockburger
A Swinton
T Taiwo
A Tan
M Taylor
R Torrie
*AW Ushko
PM Verones
TK Vu
L Wasilenko
J Weaver
DS Welch
*CN Westover
ML Wickland-Weller
JA Wismark
S Yao
*AK Yeung
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GL Higgins

Adjunct Professors Emeriti

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*E Waugh

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GE Cummings
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B Williams

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D Naidu

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LM Ma
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B Li
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LE McGann
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GR Jones
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GD Neuman
C Prosser
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ICF Sain
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JP Vernick
D Wenzel
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CC Lin
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RA Stinson
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*R Mueller

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*PF Halloran
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 *C Power
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 L Sigler
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 *L Schang
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L Breault

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*SK Aung

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 I Paterson
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 Z Lakhani
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 LA Kasza
 ST Sivakumaran
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 RE Rossall

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 WC Chang

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 *CM Norris

Adjunct Associate Clinical Professor

M Hoskinson

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 *ED Bruera

*ALA Fields
 A Janowska-Wieczorek

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DBC Ritchie
 *ARE Shaw
 *PM Venner

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MA Hamilton
 AC Woods

Associate Clinical Professor

*JL Hannon

Assistant Clinical Professors

MM Game
 M Taparia

Adjunct Assistant Professor

NA Dower

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 MJ Mant
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A Brassard

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AN Lin
 DBC Ritchie

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DW Groot
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 JY Liao
 J Rao
 MJA Sapijaszko
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 CP Keeling
 PA Lubitz
 BAS Lycka
 MB Rogers
 M Rogers
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 NR Wasel

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TC Nakatsui

Adjunct Professor

GJ Lauzon

Adjunct Assistant Professor

SP Adams

Distinguished Clinical Professor

J Brown

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 *DC Cumming
 J Ginsberg
 *S Harvey
 RZ Lewanczuk
 *WA McBlain
 DW Morrish
 EA Ryan
 AM Sharma
 EL Toth
 J Vance

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LE Mereu

Assistant Professor

PA Senior

Assistant Clinical Professors

PA Hardin
 S Li
 TL McNab
 RS Mitchell
 A Opgenorth
 JS Romney

Adjunct Associate Professor

JA Johnson

Professors Emeriti

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 RN Eidem
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 GD Molnar
 A Rabinovitch

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 *WJ Dickout
 *MT Clandinin
 RN Fedorak
 P Jacobs
 JB Meddings
 ABR Thomson

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LA Dieleman
 KJ Goodman
 LM Gramlich
 KS Gutfreund
 M Ma
 KL Madsen
 AL Mason
 DC Sadowski
 WW Wong
 *MI McBurney

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*CJ Field
 D Kao
 JJ Liu
 GS Sandha
 P Tandon
 CKW Wong

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 CM Switzer
 RH Wensel
 CN Williams

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EAG Lalor
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 *MS Millan
 EA Semlacher

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A Bala
 RD Cherry
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 K Matic
 RM Penner
 KC Render
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D Demeria

Professor Emeritus

RW Sherbaniuk

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*SC Houston
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TD Duggan
 *RSA Hayward
 *R Khurana
 SR Majumdar
 N Kassam
 F McAlister
 *AAC Yeung

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CE Goldstein
 F Morales
 R Padwal
 WVK Sia

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 KC Bowering
 NE Gibson
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 E Kretzul
 *GF MacDonald
 BD O'Brien

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 N Dean
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 KD Hopkins
 *MS Millan
 JWI Morse
 MG Nutting
 E Raff
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 DA Campbell
 R Chea
 AR Grynoch
 A Hendricks
 CF MacDonald
 LER Malowany
 R Maraj
 M Moreau
 JE Rouget
 CL Simpson
 PA Turner
 YN Westra
 S Zia

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 RA Hosein
 GJ Hrynchynshyn
 D Teichrob

Adjunct Professor

DM Gilchrist

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LM Anholt
 JB Dossetor
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 AG Juby
 DB Rolfsen

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PM Lawson
 S Seneratne

Professor Emeritus
 PN McCracken

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 PF Halloran
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 PM Campbell
 N Jahroudi
 AW McMahon
 AG Murray
 M Tonelli

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MJ Courtney
 SN Davison
 S Gourishankar
 S Habib
 SW Klarenbach
 VA Luyckx
 TF Mueller
 NI Pannu
 MU Qarni

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SS Caldwell
 S Duggan
 IA Ferguson
 JR Grynoch

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JSJ Bradley
 CW Johnstone
 A Pisani
 SP Reddy

Adjunct Professor

B Kaplan

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 *JB Dossetor
 T Kovithavongs
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 *TJ Marrie
 LJ Miedzinski
 JK Preiksaitis
 *CL Soskolne
 GD Taylor
 *DLJ Tyrrell

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*L-J Chang
 I Chiu
 A Humar
 AM Joffe

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KE Doucette
 D Kumar
 SJ Rosser
 LM Saxinger
 SW Smith

Clinical Professor

B Romanowski

Associate Clinical Professors

LR Boychuk
 AE Singh

Assistant Clinical Professor

R Ahmed

Clinical Lecturer

J Johnstone

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G Goldsand

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JH Jhamandas
WR Martin
C Power
A Shuaib
KG Warren
D Westaway

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JRM Camicioli
DS Fulton
DW Gross
WSW Johnston
S Kar

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N Ahmed
GG Blevins
BH Buck
KS Butcher
F Giuliani
TJ Jeerakathil
S Kalra
KA Khan
MA Saqqur
ZA Siddiqi
*BD Sinclair
*KG Todd

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ML Myles
E Starreveld
C Tai
NJ Witt

Assistant Clinical Professors

K Makus
R Pokroy
RN Roberts
MM Siddiqui
PE Stenerson

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JL Kashmere
B Marynowski
BJ Stewart

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MH Brooke
G Monckton

Adjunct Professor

SA Warren

Adjunct Associate Professor

NL Ashworth

Adjunct Assistant Professor

S Cleary

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I Mayers

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AD Befus
*NE Brown
*NN Finer
RL Jones
M King
DC Lien
R Long
GC Man
R Moqbel

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G Broderick
L Cheung
RW Damant
*PA Hessel
P Lacy
H Vliagoftis
EYL Wong

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M Bhutani
L Cameron
*M Duszyk
BD McNab
NM Skjodt
MK Stickleland
G Verma
D Vethanayagam
JG Weinkauff

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TK Lee
GF MacDonald

Associate Clinical Professors

JS Archibald
WJ Dickout
MK Heule
S Marcushamer
DE Stollery
EL York

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B Chiam
LS Melnenka
A Shustak

Adjunct Professors

DA Enarson
A Ghahary
NRT Gibney

Adjunct Assistant Professor

DJ Adamko

Professors Emeriti

FA Herbert
SFP Man
BJ Sproule

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JE Homik

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SL Aaron
P Davis
WP Maksymowych

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AE Oswald
SO Keeling
*M Suarez-Almazor
EA Yacyshyn

Clinical Professor

R Ferrari

Associate Clinical Professors

DE Sholter
KJ Skeith

Assistant Clinical Professors

PL Chiu
HN Jones
A Yan

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JD Cassidy

Professor Emeritus

AS Russell

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ST Davidge
NN Demianczuk
BF Mitchell
DM Olson
M Sagle
RW Turnell

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VA Capstick
R Chari

CG Flood

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J Schulz

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S Chandra
D Hemmings
V Jain
*R Khurana
T Motan
H Steed

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LG Evenson
CF Hoskins
S Langton
M Lieberman
G Sabourin
SN Schuurmans
IV Tataryn

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G Black
R Black
M Bow
R Chua
T Corbett
TP Gleason
S Genius
DJ Hodges
G Iwaniuk
A Lee
MS Mah
*A Plewies
*D Slade
R Uretsky

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D Barreth
S Baydock
RJ Brown
S Brown
C Barnes
M Coe
H Danial
E DeDomingo
*G Gray
J Griffiths
*S Gross
S Halleran
G Jiwa
D LaRose
C Linton
AM Long
J Mayo
JM McCubbin
B Muir
H Robinson
M Roy
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F Tam
J Tinkel
M Tauh
F Tsui
T Unger
P Verma
J Wang
K Wiebe
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B Wong
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DL Dunlop
W Fought
L Honore
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S Reid (Anesthesia)
S Tough (Pediatrics)

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G Chan
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*A Janowska-Wieczorek
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*R Leng

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ALA Fields
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CH Butts
S North
M Sawyer
M Smylie
K Tonkin

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K King
S Koski
KE Mulder
AJ Reiman
A Scarfe

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N Chua
D Fenton

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*K Courneya
*DW Morrish
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*LM Larratt

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M Carlone

M MacKenzie

T Riauka
A Syme
S Steciw
B Warkentin

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SL Connors
GC Field
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Assistant Clinical Professors

B Long
H Warkentin

Adjunct Professors

J Cunningham
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Associate Professor

J Mercer

Associate Clinical Professors

D Abrams
A Joshua
S Sharma

Adjunct Clinical Professors

R Hennig
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Adjunct Associate Clinical Professor

TJ Terry

Adjunct Assistant Clinical Professors

A Bistriz
B Campbell
E Hudson
M Janoski
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V Baracos

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CE Cumming
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S Dumont
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B Abdularim
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D Yee

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GS Dundas
T Nijjar

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S Chafe
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J Amanie
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DL Bigam
A Schepansky
J Shapiro

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G Lavoie
H Steed
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Adjunct Clinical Professor

K Petruk

Adjunct Associate Clinical Professor

H Seikaly

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FL Leong-Sit
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J Leong-Sit
EA Macdonald
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B Wakeman

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T Lacaze
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P Cheung
IW Craig
SJ Desai
L Dibden
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JE Ellsworth
S Gilmour
R Girgis
KJ Goulden
M Gowrishankar
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R Lehner
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D McConnell
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I Rebeyka

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L Wincott
L Zwaigenbaum

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G Ball
S Beno
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B Clark
A Crocco
S Curtis
D Davies
C Dosman
N Dower
W El-Matary
M Enarson
L Evered
K Forbes
S Fergie
S Grewal
D Hartfield
H Huynh
M Jetha
H Jou
C Joynt
H Kolski
M Lang
B Lee
J Lee
M Lewis
A Mackie
P Mandhane
S Marks
T Masterson
A Newton
R Persad
S Persad
M Pinsk
C Rasmussen
J Ruttledge
M Spavor
E Swartz
R Tang-Wai
E Tham
J Turner
T Turner
J Walton
K Waters
BA Wilson
M Witmans
A Witol
J Wong
B Wright

M Enarson
L Evered
K Forbes
S Fergie
S Grewal
D Hartfield
H Huynh
M Jetha
H Jou
C Joynt
H Kolski
M Lang
B Lee
J Lee
M Lewis
A Mackie
P Mandhane
S Marks
T Masterson
A Newton
R Persad
S Persad
M Pinsk
C Rasmussen
J Ruttledge
M Spavor
E Swartz
R Tang-Wai
E Tham
J Turner
T Turner
J Walton
K Waters
BA Wilson
M Witmans
A Witol
J Wong
B Wright

M Enarson
L Evered
K Forbes
S Fergie
S Grewal
D Hartfield
H Huynh
M Jetha
H Jou
C Joynt
H Kolski
M Lang
B Lee
J Lee
M Lewis
A Mackie
P Mandhane
S Marks
T Masterson
A Newton
R Persad
S Persad
M Pinsk
C Rasmussen
J Ruttledge
M Spavor
E Swartz
R Tang-Wai
E Tham
J Turner
T Turner
J Walton
K Waters
BA Wilson
M Witmans
A Witol
J Wong
B Wright

M Enarson
L Evered
K Forbes
S Fergie
S Grewal
D Hartfield
H Huynh
M Jetha
H Jou
C Joynt
H Kolski
M Lang
B Lee
J Lee
M Lewis
A Mackie
P Mandhane
S Marks
T Masterson
A Newton
R Persad
S Persad
M Pinsk
C Rasmussen
J Ruttledge
M Spavor
E Swartz
R Tang-Wai
E Tham
J Turner
T Turner
J Walton
K Waters
BA Wilson
M Witmans
A Witol
J Wong
B Wright

M Enarson
L Evered
K Forbes
S Fergie
S Grewal
D Hartfield
H Huynh
M Jetha
H Jou
C Joynt
H Kolski
M Lang
B Lee
J Lee
M Lewis
A Mackie
P Mandhane
S Marks
T Masterson
A Newton
R Persad
S Persad
M Pinsk
C Rasmussen
J Ruttledge
M Spavor
E Swartz
R Tang-Wai
E Tham
J Turner
T Turner
J Walton
K Waters
BA Wilson
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A Witol
J Wong
B Wright

Clinical Professors

RR Moriarty
A Pelowski
J Popowich

Associate Clinical Professors

KB Anderson
G Andrew
I Buka
P Byrne
A Conradi
A de Caen
S Galante
K Lee
*GM Lees
F Martin
TJ Paton
E Phillipos
PM Pierser
EM Rabinovitch
M Somerville

J Tyebkhan
KS Wong
PC Zuberbuhler

Assistant Clinical Professors

J Ackland-Snow
N Anton
A Ausford
D Berry
M Bhambhani
S Carr
R Chen
W Doyle-Chan
EW Harris
K Horne
B Islam
A Janicka
A Joffe
A Kantoch
C Kyriakides
S Lappa
SL Lee
RP Lemke
L Lequier
P Lidman
JE Lopatka
A Malik
BA Malinowski
LF McGonigle
K Meier
AN Mian
C Morgan
*JC Mullen
A Murdock
H Osiovich
VM Osundwa
J Patidar
S Petryk
D Radisic
ML Ramji
D Roseman
E Schuster
L Sim
G Sukhrani
WA Szymanski
J Teoh
T Vander Leek
S Wong

J Tyebkhan
KS Wong
PC Zuberbuhler

J Tyebkhan
KS Wong
PC Zuberbuhler

J Tyebkhan
KS Wong
PC Zuberbuhler

J Tyebkhan
KS Wong
PC Zuberbuhler

Pharmacology**Chair and Professor**

SMJ Dunn

Administrative Officer

JC Deuel

Professors

TM Allen
AS Clanachan
WF Colmers
DA Cook
JRB Dyck
PE Light
*GD Lopaschuk
*IL Martin
R Schulz
PA Smith
AM-W Tse
FW-Y Tse
AAC Yeung

Associate Professors

*P-Y Cheung
AL Hudson
E Posse de Chaves

Assistant Professors

A Holt

PE MacDonald
F Plane
S Spione

Professors Emeriti

WF Dryden
GB Frank
WP Gati
RM Henderson

Clinical Professor Emeritus

EE Daniel

Faculty Service Officer

M Davies

Physiology**Chair and Professor**

CI Cheeseman

Administrative Officer

BA Armstrong

Professors

K Ballanyi
*B Ballerman
JR Casey
CB Chan
*ST Davidge
JJ Greer
S Harvey
AKC Ho
SE Jacobs
*LW Kline
*BF Mitchell
*DM Olson
KG Pearson
A Prochazka
EJ Sanders
JD Young

Associate Professors

SC Barton
CG Benishin
*GB Braam
X-Z Chen
*C Dickson
M Duszyk
GD Funk
*RZ Lewanczuk
PV Nguyen
*B Thebaud

Professors Emeriti

E Karpinski
RB Stein

Adjunct Professors

*GR Foxcroft
*RL Jones

Psychiatry**Chair and Clinical Professor**

PJ White

Administrative Officer

S Roy

Professors

GB Baker
NJ Coupland
SM Dursun
AJ Greenshaw
GS Hnatko
AS Joyce
J LeMellédo
SC Newman
PH Silverstone

Associate Professors

W Friend
S Kar
P Tibbo
KG Todd

Assistant Professors

A Choy
B Dick
F Dolcos
E Fujiwara
I Winship

Clinical Professors

JL Banasch (Associate Chair)

J Beach
M Blackman
CA Blashko
AB Bremness
AM Carroll
P Chue
KM Collinson
P Copus
N Costigan
R Drebit
J Eustace
P Flor-Henry
KD Gendemann
A Gordon
CA Hapchym
RE Hibbard
L Kagan
J Kennedy
M McCallum
JG O'Kelly
JW Osinchuk
L Pawluk
HM Piktal
SE Purdon
J Rodgers
JS Rosie
PM Segal
D Shih
T Snyder
B Sowa
PI Steinberg
L Studer
LB Warneke
HM Wojcicki
M Yalitho

Professors

K Ballanyi
*B Ballerman
JR Casey
CB Chan
*ST Davidge
JJ Greer
S Harvey
AKC Ho
SE Jacobs
*LW Kline
*BF Mitchell
*DM Olson
KG Pearson
A Prochazka
EJ Sanders
JD Young

Associate Clinical Professors

LM Adams
D Block
C Buchholz
O Cadsky
PE Carr
C Carter
WT Chimich
P Chokka
M Demas
JM Dewart
RJ Dyck
CK Froelich
DR Guinhawa
RA Gurke
O Hodlevskyy
E Lobo
WA McCay
P Mills
BR Mirtle
C Moreau
MB Parsons
LJ Phillips
BS Sanderman
JR Scott
Y Shapiro
B Stich
M Swanson
M Tweddle
L Urchuk
DYW Wong

Assistant Clinical Professors

GR Acton
H Anand
B Bishop
I Chohan
M Cummins
C Els
LP Ennis
N Fisher
DR Ginter

G Hetherington

JM Hinton
ND John
AL Khaliq
K Kirdeikis
K Lawless
A Leung
D Li
J Long
RC Lundeen
R Maitra
S Matthews
E McKaigney
DW Meakins
F O'Croinin
L Ostolowsky
A Poukhovski
T Prior
S Santana
G Schoepp
W Smart
L Smit
L Stovel
RP Taubner
A Witol
N Youssef

Clinical Lecturers

F Bahrey
D Bailey
E Boffa
S Bowman
M Buchinski
L Caffaro
J Carr
J Chu
A Cojocar
K Costello
C Czarmedo
R Dempsey
SC Duncan
J Edstrom
L Elwell
FM Fogarty
SC Frank
J Gillese
J Hibbard
T Hugie
G Kelly
A Khullar
L Leclair
K Lefko-Singh
TR Leiper
L Litwinson
N Mahil
J McCahill
S Mitchell
C Morhaliek
K Morin
G Mowat
P Nadon
D Nahirmey
B Nair
SP Nigam
J O'Mahoney
R Oswald
H Pazderka-Robinson
CL Phillips
R Rabeeh
R Russell
R Seutter
V Singh
DL Spaner
D Spence
B Stonehocker
F Ullah
J Ustina
H Wilkes

Associate Clinical Professors

LM Adams
D Block
C Buchholz
O Cadsky
PE Carr
C Carter
WT Chimich
P Chokka
M Demas
JM Dewart
RJ Dyck
CK Froelich
DR Guinhawa
RA Gurke
O Hodlevskyy
E Lobo
WA McCay
P Mills
BR Mirtle
C Moreau
MB Parsons
LJ Phillips
BS Sanderman
JR Scott
Y Shapiro
B Stich
M Swanson
M Tweddle
L Urchuk
DYW Wong

Professors Emeriti

RC Bland
P Hays

Adjunct Professors

AN Bateson
RT Coutts
N el-Guebaly
*KM Hegadoren

H Jacobs
*MB Parent
WE Piper
C Power
B Rowe
E Starreveld
GD Watson
NJ Witt
J Yager

Adjunct Associate Professors

J Lind
P Nguyen
TC Wild
L Zwaigenbaum

Adjunct Assistant Professors

R Block
S Duggal
F Giuliani
A Holt
RA Holt
C-T Lai
A Newton

Radiology and Diagnostic Imaging

Diagnostic Radiology

Chair and Associate Professor
RGW Lambert

Program Director & Assistant

Clinical Professor
S Naik

Professors

*PS Allen
*AH Walji

Associate Professors

*C Beaulieu
R Bhargava
D Emery
AH Wilman

Assistant Professors

S Dhillon
LJ Filipow
L Le
M Noga
R Owen
R Thompson
E Wiebe

Honorary Professor

*M Grace

Clinical Professors

G Andrew
RC Hennig
MA Johnson
MT Sin

Associate Clinical Professors

T Ackerman
T Alexander
W Anderson
RA Ashforth
G Askev
J Barrie
I Birchall
MK Hirji
M Hoskinson
M Hutson
S Jackson
H Jen
G Lauf
CG Maguire
M O'Keefe
G Raymond
D Reich
WL Ritchie
K Siminoski
G Sterling
TJ Terry
GP Trepanier
DB Vicker
RS Warshawski

Associate Clinical Professors

T Ackerman
T Alexander
W Anderson
RA Ashforth
G Askev
J Barrie
I Birchall
MK Hirji
M Hoskinson
M Hutson
S Jackson
H Jen
G Lauf
CG Maguire
M O'Keefe
G Raymond
D Reich
WL Ritchie
K Siminoski
G Sterling
TJ Terry
GP Trepanier
DB Vicker
RS Warshawski

Assistant Clinical Professors

S Appavoo

A Bistriz
B Campbell
K Cheung
C Chmielowiec
N Cochrane
T Elliot
S Greenspan
BD Guspie
R Holub
T Horwitz
M Janoski
WG Keenan
A Kumar
N Lakis
K Lee
C Lummer
KG Magnus
P Maguire
M McCarthy
S Naik
W Parker
L Paskar
V Patel
E Preville
KN Puznak
B Rawat
H Shein
R Sherlock
M Smerdely
T Spiers
A Stewart-Kanigan
W Sugars
JF Swersky
AS Tang
B Taylor
R Turner
G Van der Merwe
B Ward
T Yeo

Clinical Lecturers
J Abele
J Baron
S Bhutani
T Black
D Bruce
J Carscadden
C Crawley
S Crowther
CG Elias
J English
M Hudson
JP Hyde
M Janicki
S Kitay
T Kotylak
B Ling
G Low
C Lywood
S Manji
NE Maslo
D McNally
M Partrick
R Pawluk
R Pereira
M Scott
DA Shamchuk
H Sidhu
A Singh
C Torbiak

Clinical Lecturers

J Abele
J Baron
S Bhutani
T Black
D Bruce
J Carscadden
C Crawley
S Crowther
CG Elias
J English
M Hudson
JP Hyde
M Janicki
S Kitay
T Kotylak
B Ling
G Low
C Lywood
S Manji
NE Maslo
D McNally
M Partrick
R Pawluk
R Pereira
M Scott
DA Shamchuk
H Sidhu
A Singh
C Torbiak

Clinical Instructor

C Olsen

Professor Emeritus

DB Russell

Nuclear Medicine

Program Director and
Associate Clinical Professor
H Jen

Professor

*AJB McEwan

Associate Clinical Professors

M Hoskinson
C Maguire
M O'Keefe
RS Warshawski

Assistant Clinical Professors

C Chmielowiec
AS Tang
B Taylor

Surgery

Chair and Professor
DM Hedden

Senior Director, Equity and
Faculty Development
KD Dabbs

Senior Director, Surgical
Research
EE Tredget

Senior Director,
Undergraduate Education
J White

Senior Director, Postgraduate
Education
GT Todd

Administrative Officer
TM Vanden Broek

Acting Administrative Officer
L Reminek

Senior Development Officer
S McCoy

Office of Surgical Education
D Madu

Cardiac Surgery

Director and Clinical

Professor
A Koshal

Professor

*WD Chin

Clinical Professors

A Koshal
JC Mullen
*IM Rebeyka
DB Ross

Associate Clinical Professors

*CR Guenther
DL Modry
S Wang

Assistant Clinical Professor

R MacArthur

Adjunct Professors

*DE Johnstone
*LJ West

Assistant Adjunct Professor

CM Norris

General Surgery

Director and Associate

Clinical Professor
M Chatenay

Professors

CJ de Gara
SM Hamilton
NM Kneteman
AMJ Shapiro

Associate Professors

DL Bigam
DW Birch
DC Williams

Assistant Professors

RJ Brisebois
D Schiller
JS White

Clinical Professors

RA Hallgren
DW Jirsch
WJ Mackie

Associate Clinical Professors

DO Adams
M Chatenay

HR Chyczyj
KD Dabbs
PD Davey
*MG Evans
BW Johnson
GM Lees
MA Meier
EA Plewes
AW Procyshyn
MH Stephens
WM Struck

Assistant Clinical Professors

D Berg
D Callahan
CJ Ciona
J Kennedy
JD Matheson
C Sample
AVF Sobey
AF Trautman
RG Turnbull
GB Winkelelaar
WJ Yakimets

Clinical Lecturers

K Alibhai
K Fathimani
RN Jutta
ST Mortimer
D Olson
K Somani
D Sutherland

Professors Emeriti

KL Bowes
RAL Macbeth
GW Scott
OG Thurston
WW Yakimets

Adjunct Professors

*TW Theman
*AH Walji

Adjunct Assistant Professor

S Issa

Neurosurgery

Director and Clinical

Professor
KC Petruk

Clinical Professors

JM Findlay
JDS McKean
KC Petruk

Associate Clinical Professors

*KE Aronyk
RJ Fox
DE Steinke

Assistant Clinical Professors

RW Broad
MM Chow
V Mehta
BM Wheatley

Clinical Lecturers

AKY Nataraj

Professor Emeritus

BKA Weir

Orthopaedic Surgery

Director and Associate

Clinical Professor
DD Otto

Professors

*KM Bagnall
*DM Hedden
DC Reid

Associate Professor

*C Lebrun

Assistant Professors

*LA Beaupre
*SK Dulai
H Jiang
NM Jomha

Clinical Professors

RM Glasgow
DWC Johnston
*MJ Moreau

Associate Clinical Professors

RA Balyk
JG Cinats
PMK Leung
*JK Mahood
*JB Mclvor
DD Otto
GG Russell

Assistant Clinical Professors

GD Arnett
MJ Bouliane
D Dick
GR Goplen
TH Greidanus
LE Hunka
FB Kortbeek
GJ Lavoie
MV Lavoie
EC Masson
JF McMillan
GJ O'Connor
RE Stiegelmar
DW Weber

Clinical Lecturers

J Bergman
J Bury
RRM Glasgow
BJ Greenhill
A Lalani
PJ Paul
A Scharfenberger
DM Sheps
J Wagg

Associate Adjunct Professor

WA Moussa

Assistant Adjunct Professors

*JS Hebert
D Hill
WM Lou
*DJ Naidu
V Raso

Otolaryngology

Director and Associate

Professor
H Seikaly

Associate Professors

H Seikaly
E Wright

Assistant Professors

K Ansari
JR Harris
*TC Uwiera

Clinical Professors

CS Carter
WH Kudryk
DJ Oldring

Associate Clinical Professors

JD Keohane
R Liu

Assistant Clinical Professors

MW Allegretto
JC DiToppa
*H El-Hakim

Clinical Lecturers

OM Bykowski
*EC Eksteen
JA Kostiuik

Pediatric Surgery

Director and Professor

DM Hedden

Professor

DM Hedden

Assistant Professors

I Bratu
SK Dulai
D Kiddoo
PD Metcalfe
*J Olson
*K Sabri
TC Uwiera

Clinical Professors

*RA Hallgren
MJ Moreau
IM Rebeyka
*DB Ross
*GH Wilkes

Associate Clinical Professors

*DO Adams
KE Aronyk
*PD Davey
MG Evans
*GM Lees
JK Mahood
JB Mclvor

Assistant Clinical Professors

*D Dick
H El-Hakim
*G Louie

Clinical Lecturer

EC Eksteen

Adjunct Assistant Professor

J Norton

Plastic Surgery

Director and Clinical

Professor
GH Wilkes

Professors

*LE McGann
*PG Scott
EE Tredget

Assistant Professors

*J Olson
*D Wu

Clinical Professors

GL Lobay
GL Moysa
GH Wilkes

Associate Clinical Professors

DD Campbell
M Morhart

Assistant Clinical Professors

DC Edwards
MJ Giuffre
T Hayashi
G Louie
T Riegel

Clinical Lecturers

TF Chong
R Grover
BM Mehling
J Wolffli

Professor Emeritus

JDM Alton

Adjunct Professor

S Nagata

Surgical Medical Research Institute

Director and Professor

RV Rajotte

Surgical Research

Director and Professor

EE Tredget

Professors

GS Korbutt
RV Rajotte
EE Tredget

Associate Professor

B Agrawal

Assistant Professors

CC Anderson
TA Churchill
G Rayat
JF Wang

Faculty Services Officer
LF Zhu**Professors Emeriti**

KP Kowalewski
GW Scott
DC Secord

Adjunct Professors

MP Mintchev
*RW Yatscoff
*LJ West

Thoracic Surgery**Director and Associate Professor**

TL Winton

Associate Professor

TL Winton

Assistant Professors

E Bedard
KC Stewart

Assistant Clinical Professor

A Valji

Urological Surgery**Director and Clinical Professor**

MP Chetner

Professor

RB Moore

Associate Professor

GT Todd

Assistant Professors

NE Jacobsen
*D Kiddoo
*PD Metcalfe
KF Rourke

Clinical Professor

MP Chetner

Associate Clinical Professors

DR Mador
JB Metcalfe

Assistant Clinical Professors

RP Abele
B Bochinski
DJ Bochinski
EP Estey
HJ Evans
GJ Gray
M Hobart
MN Weisler
TA Wollin

Professors Emeriti

WH Lakey
MS McPhee
JO Metcalfe

Associate Adjunct Professor

KN Moore

Faculty Divisions**Anatomy****Director and Professor**

AH Walji

Professor

DA Begg

Associate Professors

*L Satkunam
P Lemelin
D Livy

Lecturer

A Farias

Professors Emeriti

K McFadden
DB Russell
HIA Zaw-Tun

Continuous Professional Learning**Associate Dean and Professor**
C de Gara**Assistant Directors**

D Klein
SE Low

Research Director and PhD Educator

L Keenan

Critical Care Medicine**Director and Professor**

RTN Gibney

Administrative Officer

S Griffin

Professors

WD Chin
*I Mayers
*E Tredgett

Associate Professors

PG Brindley
*L Cheung
KJ Kutsogiannis

Assistant Professors

SM Bagshaw
*R Brisebois
*N Pannu
*S Widder

Clinical Professor

RG Johnston

Associate Clinical Professors

*A Conradi
*A deCaen
*S Duggan
*CR Guenther
*M Heule
*C Johnston
R McDermid
*M Meier
*W Murtha
*MH Stephens
*DE Stollery

Assistant Clinical Professors

J Davidow
D Djogovic
M Ewanchuk
M Henry
D Hudson
*M Jacka
*A Joffe
*B Kropelin
*A Liu
*S Marcushamer
D Markland
*JD Matheson
S Norris
E Rokosh
*A Shustack
G Singh
W Sligl
*A Sobey
G Suen
D Townsend
C Torok-Both
M Zibdawi

Health Sciences Laboratory Animal Services**Director**

G Parks

Faculty Service Officers

G Parks
RE Uwiera

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

*RJ Sobsey

Clinical Professor

*P Byrne

Professor

*W Austin

Associate Professor

*L Shanner

Assistant Clinical Professor

*B Leier

Professors Emeriti

*V Bergum
*JB Dossetor

Neuroscience**Director and Professor**

*KG Pearson

Professors

*N Ashworth
*GB Baker
*K Ballanyi
D Bennett
*WF Colmers
S Dunn
*T Gordon
*AJ Greenshaw
*JJ Greer
*S Harvey
K Hegadoren
*JH Jhamandas
*TL Krukoff
*WR Martin
J Misiaszek
D Pilgrim
*C Power
*A Prochazka
*A Shuaib
*P Silverstone
*PA Smith
A Spencer
D Treit
*A Tse
*F Tse
R Wevrick
D Wong-Wylie
*J Yager
J Yang

Associate Professors

*M Gorassini
*A Hudson
*S Kar
BKV Maraj
*P Nguyen
*E Posse de Chaves
CT Putman
*P Tibbo
*KG Todd

Associate Professors

DJW Ali
CA Boliek
*R Camicioli
*KM Chan
F Colbourne
D Collins
CT Dickson
K Fouad
*G Funk
*M Gorassini
*A Hudson
*S Kar
BKV Maraj
*P Nguyen
*E Posse de Chaves
CT Putman
*P Tibbo
*KG Todd

Assistant Professors

J Caplan
P Davidson
B Dick
*F Dolcos
*E Fujiwara
*S Gosgnach
P Hurd
*K Jones
*B Kerr
*D Livy
*V Mushahwar
*Y Sauve

***Z Siddiqi**

A Singhal

*S Sipione

C Sturdy

CF Westbury

Clinical Professors

P Flor-Henry

*KC Petruk

Adjunct Professor

*JC Lind

Professors Emeriti

*RB Stein

AR Dobbs

S Kumar

Physical Medicine and Rehabilitation Medicine**Director**

N Ashworth

Professor

T Gordon

Clinical Professors

LA Bellamy (Emeritus)
M Watt

Associate Professors

KM Chan
L Satkunam
RS Burnham
S Gray

Assistant Professors

J Hebert
D Naidu

Associate Clinical Professors

M DiPersio
JB Guthrie
JM Nagy

Assistant Clinical Professors

E Sampson
C Tuchak
J Townsend

Clinical Lecturers

D Flaschner
J Irvine
R Thiara
S Zaki

Adjunct Professors

B Dafoe
N Dean
P Gordon
*RB Stein

Studies in Medical Education**Acting Director and Professor**

BW Fisher

Professor and Vargo Chair

*DA Cook

Adjunct Associate Professor and Faculty Service Officer

D Harley

Educational Associates

*FR Brenneis (Family Medicine)
*P Brett-MacLean
*VA Capstick (Obstetrics and Gynecology)
*CI Cheeseman (Physiology)
*C de Gara (Associate Dean, Continuous Professional Learning)
*MG Donoff (Family Medicine)
*L Keenan (Continuous Professional Learning)
*R Kearney (Anesthesiology and Pain Medicine)
*NJ Leonard (Genetics)
*L Miedzinski (Infectious Diseases)
*J Parmar (Geriatric Medicine)
*DC Rayner (Associate Dean,

UGME, Laboratory Medicine and Pathology)

*B Roed

*L Saxinger (Infectious Diseases)

*J Steiner (Family Medicine)

*K Stobart (Pediatrics)

Research Associates

*D Blackmore (Medicine Council of Canada)

*R Damant (Medicine)

*BW Fisher (Medicine-General Internal Medicine)

*L Laing (Public Health Sciences)

*M Sagle (Obstetrics and Gynecology)

Professor Emeritus

G Goldsand

Centres/Institutes**Alberta Asthma Centre****Director**

D Befus

Alberta Centre for Injury Control and Research**Director**

L Francescutti

Alberta Diabetes Institute**Scientific Director**

RG Gill

Mazankowski Alberta Heart Institute**Scientific Director**

G Lopaschuk

Alberta Peptide Institute**Director**

JMR Parker

Alberta Transplant Applied Genomics Centre**Director**

P Halloran

Canadian VIGOUR Centre**Director**

PW Armstrong

Centre for Health Outcomes Research (iCARE)**Scientific Director**

S Lee

Centre for Neuroscience**Director**

K Pearson

Glaxo Wellcome Heritage Institute of Biomolecular Design Research Institute**Acting Director**

L Fliegel

John Dossetor Health Ethics Centre**Director**

*RJ Sobsey

Muttart Diabetes Research Training Centre**Director**

A Rabinovitch

Surgical Medical Research Institute**Scientific Director**

RV Rajotte

Women's and Children's Health Research Institute**Director**

T Lacaze

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

IV Samarasekera, O.C.

Representatives

J Buckingham (Medical Librarian)

L Stelck (Registrar's Representative)

H Campbell (Alberta Dental Association)

J Foght (Faculty of Science)

M Ferguson-Pell (Dean, Faculty of Rehabilitation Medicine)

ALA Fields (Cross Cancer Institute)

R Bland (Alberta Mental Health Board)

M Gormley (Alberta Medical Association)

C Lebrun (Faculty of Physical Education and Recreation Representative)

A Molzahn (Dean, Faculty of Nursing)

FM Pasutto (Dean, Faculty of Pharmacy and Pharmaceutical Sciences)

M Rowe (Community Care and Public Health, CHA)

L Best (Senate Liaison)

G Predy (Medical Officer of Health, CHA)

J Maignan (Alberta Heritage Foundation for Medical Research)

J-M Turc (Alberta Cancer Board)

B Walker (Alberta Dental Hygienist Association)

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.

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) At the graduate level, programs leading to the degree of Master of Science or Doctor of Philosophy. Also programs leading to the degree of Master of Public Health (formerly, Master of Health Service Administration) or the Diploma in Health Service Administration.
- (7) Programs leading to accreditation by the College of Family Physicians of Canada.
- (8) Programs leading to eligibility for specialist qualification, in all clinical specialties, by the Royal College of Physicians and Surgeons of Canada are offered in cooperation with affiliated hospitals.
- (9) An extensive program of continuing medical education for physicians practising in northern Alberta.
- (10) 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.

Dental Programs

- (1) An accredited four-year program leading to the degree of Doctor of Dental Surgery (DDS). At least two pre-dental years at university are required before admission to this program.
- (2) A Bachelor of Medical Science degree that students registered in the DDS program may apply for after successfully completing the first two years of the DDS program.
- (3) 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 requirement is successful completion of an approved accredited Canadian or international dental hygiene diploma program.
- (7) MSc and PhD degrees in Medical Sciences (Dentistry).
- (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. 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 lectures, 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.

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 the advancement of knowledge in dentistry and allied fields by doing research, publishing research papers, and communicating and interacting with
 - a. other health sciences and other disciplines of the University to promote comprehensive health care;
 - b. the dental profession, dental auxiliaries, auxiliary-training programs, and the community to promote oral health; and
 - c. basic and clinical science organizations and granting agencies to promote disciplinary and interdisciplinary research.
- (3) To graduate competent undergraduate dentistry students, dental hygiene students and graduate and postgraduate students by
 - a. attracting, selecting, and then motivating the most suitable and well-qualified students who have the ability to acquire the education and training for a professional and/or academic career;
 - b. maintaining an undergraduate dentistry curriculum that integrates basic medical and dental sciences, behavior and social sciences, dental clinical sciences, community and preventive dentistry, hospital dentistry, and practice management; incorporates recent concepts, materials, techniques, advances, and research in all areas; and reflects the existing and projected provincial, national, and international oral health needs;
 - c. maintaining a dental hygiene curriculum that produces students who will complement the present and future dental care delivery system;
 - d. maintaining an education program that allows for the smooth transition from graduation to practice and ensures that students are competent to practise efficiently and responsibly; and
 - e. graduating students who are competent to assume roles of leadership and service in their professions and communities.
- (4) To provide the opportunity and stimulus for continued learning through postgraduate, graduate, research, and continuing education programs.
- (5) To provide efficient and quality dental treatment for the community that emphasizes and recognizes patient needs.

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 appropriate hospital authorities, both within and beyond 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 Dentistry Pharmacy Centre Buildings, and the Cross Cancer Institute.

112.2.2 Family Medicine Rural Teaching Sites

The Department of Family Medicine has an educational relationship with 8 of 9 Regional Health Authorities. Currently, over 33 rural communities participate 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, fellows, and graduate students in the Faculty of Medicine and Dentistry in the field of experimental surgery and medicine. Facilities include rooms suitable for operating on large and small animals, a biochemistry and histology laboratory, and the Medicine/Dentistry Electron Microscopy Unit, located in the Institute. In addition to research activities, the SMRI provides major teaching facilities for surgical residents in training and for core training (surgical skills) for postgraduate Year 1, postgraduate Year 2, graduate, and summer students. The surgical facilities are also used for running continuing medical education courses for medical and paramedical practitioners to study the latest innovations in medicine. The Institute offers four postgraduate courses, three of which are prerequisites for the MSc and PhD degrees in experimental surgery.

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 the Alberta Cancer Board (ACB) (the provincial health authority for cancer) that provides cancer services for northern Alberta and houses the Department of Oncology. The ACB and the University of Alberta 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 licencing examinations in most of the states in the United States and the examinations of the National Board of Dental Examiners of the American Dental Association.

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

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 licencing 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 Alberta Dental Hygienists Association may refuse to issue a license and/or registration certificate to practise dental hygiene to any applicant with a criminal record.

112.4 Finance

112.4.1 DDS Degree

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

Note: The figures are based on 2007–2008; figures are subject to change without notice.

| Additional Costs for DDS Students | Year 1 | Year 2 |
|--|--------|--------|
| Books | 1,200 | 1,100 |
| Dental Kits | 16,300 | 0 |
| Dental Students Association | 170 | 170 |
| | Year 3 | Year 4 |
| Books | 600 | 400 |
| Dental Kits | 3,000 | 500 |
| Dental Students Association | 170 | 170 |
| 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 based on 2006–2007; figures are subject to change without notice.

| Additional Costs for DH Students | Year 2 | Year 3 |
|--|--------|--------|
| Books | 900 | 600 |
| Dental Hygiene Kits | 4,300 | 2,000 |
| Membership Fees | 90 | 90 |
| Professional Exam Fee (refer to www.ndeb.ca) | N/A | 500 |

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

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

112.4.3 Bachelor of Science (Dental Hygiene Specialization)

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

Note: The figures are based on 2007–2008; figures are subject to change without notice.

| Additional Costs for Students | Year 4 |
|-------------------------------|--------|
| Books | 900 |
| Dental Hygiene Kits | N/A |
| Membership Fees | 100 |

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

(See §112.4.3)

112.4.5 Advanced Placement Program (DDS)

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

Note: The figures are based on 2007–2008; figures are subject to change without notice.

| Additional Costs for Students | Year 1 | Year 2 |
|--|--------|--------|
| Books | 1,000 | 400 |
| Dental Kits | 17,000 | 600 |
| Membership Fees | 170 | 170 |
| 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, 2-45 Medical Sciences Building; 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 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 Dentistry-Pharmacy Hockey Challenge, are also scheduled throughout the year. The DSA works with the Faculty to present concerns and facilitate change, and together, provide students the ability to make contributions to create an enjoyable and successful program.

The Dental Alumni Association is an organization of all graduates in Dentistry from the University of Alberta. The Association takes an active interest in the Department of 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 §15 for specific admission information for the DDS, Dental Hygiene, MD, and BSc in Medical Laboratory Science 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, 2J2.11 Walter C Mackenzie Health Sciences Centre.

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. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
 - c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the

- didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.
- d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
 - e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
 - g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
 - h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
 - i. Reexaminations in all 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.
- (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 (See the Code of Student Behaviour, Appendix A of the University of Alberta Calendar).

- (12) **Medical Testing and Immunization Requirements:** To ensure, insofar as possible, both student and patient safety, before orientation, or the Pre-Clinical 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**
- Students are allowed reexamination privileges only in courses that are failed.
 - The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
 - The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.
 - If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
 - Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
 - A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
 - The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
 - 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.
- (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.
- 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.
 - A student who fails more than two courses in any year of the program will be required to withdraw from the program.
 - 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 (See the Code of Student Behaviour, Appendix A of the University of Alberta Calendar).
- (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.

- Certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required.
- 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.
- 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.)
- 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.
- 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.
- 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.
- Reexaminations:** See §23.5.5.
 - Students are allowed reexamination privileges only in courses that are failed.
 - 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.
 - 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.
 - A student repeating a year is not allowed reexamination privileges in that year of the program.
 - If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
 - Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - The 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).
 - 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. First- and second-year Dental Hygiene students will take the reexamination as scheduled by June 30. Students in the third year will write after the end of the first term for first term courses, and by June 30 for second term and two term courses. Students in the fourth year will write reexaminations after Spring/Summer for Spring/Summer courses or at the end of first term for first term courses. Students in the Post Diploma Degree Completion Programs will write reexaminations after the applicable term. Students are advised to consult the Department.
- (9) Students are permitted to repeat first-year and second-year Dental Hygiene only in exceptional cases as determined by the Department Council. 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.
- a. has achieved a minimum GPA of 2.7 in the year requiring repetition;
 - b. has clinical/practicum deficiencies in no more than two clinical courses and is advised that the deficiency could be corrected within a four-month period of instruction; and
 - c. has successfully completed all written examinations in the Dental Hygiene program.
- (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:
- a. Review, by the Faculty of the reasons for withdrawal and the student's academic record;
 - b. Availability of a place, within quota, in the class to which the student is seeking readmission. Priority will be assigned in the following order:
 - i) Students who have met normal promotion requirements.
 - ii) Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing.
 - c. The length of time the student interrupts studies leading to the Dental Hygiene Diploma or Bachelor of Science (Dental Hygiene Specialization) programs must not exceed two years in total.
- (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), Years 1 and 2 are under the direction of a preclinical coordinating committee and Years 3 and 4 under the direction of a clinical coordinating committee. (See §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:**
- a. At the end of second year, students take a preclinical comprehensive examination (denoted as MED 520) covering material presented in the first two years of the program.
 - b. At the end of fourth year, students take a comprehensive examination (denoted as MED 540) covering material presented in all four years of the program. Students must pass all clinical clerkship requirements in Years 3 and 4, excluding MED 540, before they will be allowed to take the comprehensive examination. The Academic Standing Committee will review eligibility for writing the comprehensive exam after students have met all clinical clerkship requirements, normally in late March.
 - c. Students must pass the comprehensive examination before being promoted or allowed to graduate.
- (6) Students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
- (7) **Reexaminations**
- a. Students are allowed reexamination privileges only in courses that are failed.
 - b. A student repeating a year is not allowed reexamination privileges in that year.
 - c. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - d. If a reexamination is approved, satisfactory completion of a remedial program may be required before the student is permitted to take the reexamination.
 - e. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
 - f. The reexamination mark will replace the original final exam mark (as in the case of a deferred mark).
 - g. Reexamination privileges will be granted to students failing only one course in any year of the program.
 - h. Reexamination of MED 540 Comprehensive Examination: Students who fail the comprehensive examination will be granted a reexamination.
- (8) **Academic Standing:** Final decisions regarding academic standing and promotion to the next year of graduation are made by the Faculty Academic Standing and Promotion Committee.
- a. No student may proceed to any subsequent year of the medical program and will be required to withdraw unless they have passed all courses for that academic year.
 - b. 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.
 - c. 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:**
- a. No student will be allowed to repeat Year 1 of the MD program. At the discretion of the Dean, students in Year 2, 3 or 4 may be allowed to repeat a failed year.
 - b. A student repeating a year is not allowed reexamination privileges in that year of the program.
 - c. No student is allowed to repeat more than one year of the MD program.

(10) Voluntary Withdrawal: A student wishing to temporarily withdraw 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:

- a. review, by the Faculty, of the reasons for withdrawal and of the student's academic record;
- b. Availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:
 - i) students who have met normal promotion requirements.
 - ii) Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing.
- c. The length of time the student interrupts studies leading to the MD degree must not exceed two years in total.

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

(12) All students registered in the MD program are required by provincial legislation to be registered in the Educational Register of the Alberta College of Physicians and Surgeons. This registration permits the practice of medicine within the confines of the formal medicine curriculum. Students in the MD program are required to adhere to the professional code of ethics of the Alberta College of Physicians and Surgeons. (See the Code of Student Behaviour, Appendix A of the University of Alberta Calendar).

(13) Medical Examination

Students admitted to the MD Program are required to present a certificate of satisfactory medical examination from a University of Alberta Health Centre physician. This requirement must be met before orientation.

To ensure, insofar as possible, both student and patient safety, the Faculty requires immunization against, or proof of immunity to, poliomyelitis, diphtheria, tetanus, measles, mumps, rubella, and hepatitis B. As well, varicella titre 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) 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.

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

(3) 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.

(4) **Reexamination:** See §23.5.5

(5) 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.

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

(7) 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.

113.3 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 (Appendix A of the University of Alberta Calendar) describes a range of non-academic and academic offences deemed unacceptable and for which a student may be penalized. Additionally, the Faculty of Medicine and Dentistry has filed with the Campus Law Review Committee a list of offences representing gross professional misconduct.

114 Programs of Study

114.1 Protection of Persons in Care

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

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, Reproductive Medicine and Urology, Musculoskeletal System, Neurosciences, Oncology. These subjects are augmented by dental courses offered by the respective divisions. The lectures, laboratories, seminars, and clinics offered by the Department of Dentistry relate and integrate these fundamental disciplines with the knowledge, skills, 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 | ★12 | 9 weeks |
| DDS 510 | ★6 | 2-6s-0/week |
| DDS 514 | ★2 | 0-0-60 |
| DDS 518 | ★4 | 54-0-6 |
| INT D 410 | ★3 | 0-32.5-0 |

Year 2

| | | |
|---------|-----|-------------|
| DDS 506 | ★5 | 6 weeks |
| DDS 507 | ★9 | 11 weeks |
| DDS 508 | ★2 | 2 weeks |
| DDS 520 | ★6 | 2-6s-0/week |
| DDS 522 | ★1 | 7 weeks |
| DDS 523 | ★6 | 7 weeks |
| DDS 529 | ★25 | 19 weeks |
| DDS 532 | ★4 | 60-0-0 |
| DDS 533 | ★2 | 30-0-0 |

Year 3

| | | |
|---------|-----|----------|
| DDS 541 | ★1 | 15-0-0 |
| DDS 545 | ★52 | 39 weeks |
| DDS 547 | ★1 | 15-0-0 |
| DDS 549 | ★3 | 25-0-45 |
| DDS 555 | ★1 | 15-0-0 |

Year 4

| | | |
|---------|-----|----------|
| DDS 565 | ★50 | 30 weeks |
|---------|-----|----------|

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 successful entry into the program, these students will enter the third year of the program and will be fully integrated with the third year students. The purpose of the program is to enable these students to write the National Dental Examining Board examinations for certification to practice dentistry in Canada.

Curriculum for Advanced Placement Students

Prior to entry into the program, students will be required to successfully complete the pre-clinical assessment course DDS 829. This course will assess the students' ability to perform clinical procedures for the treatment of patients. Successful completion of this course will permit students to enter the first year of the Advanced Placement Program and then be assigned patients to treat 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 549 | ★3 | 25-0-45 |
| 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 positions of responsibility in private dental practice or community health care settings.

The dental hygienist is an integral member of the health care team and strives to improve oral health by providing preventive 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.

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

In addition to the Diploma curriculum 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 203 | ★4 | 52-0-2 |
| D HYG 210 | ★3 | 39-0-0 |
| D HYG 211 | ★6 | 78-0-0 |
| D HYG 212 | ★6 | 0-0-180 |
| D HYG 213 | ★3 | 0-99c-3 |
| D HYG 220 | ★3 | 26-0-26 |

| | | |
|-----------|----|-----------|
| D HYG 230 | ★1 | 15-0-0 |
| D HYG 240 | ★2 | 28-0-15 |
| INT D 410 | ★3 | 0-32.5s-0 |
| MMI 133 | ★3 | 39-0-0 |
| OBIOL 202 | ★4 | 60-0-2 |
| PHYSL 210 | ★6 | 78-0-0 |

Year 3

| | | |
|-----------|------|----------|
| D HYG 313 | ★16 | 0-471c-0 |
| D HYG 316 | ★2.5 | 28-12c-0 |
| D HYG 317 | ★3 | 39-0-0 |
| D HYG 321 | ★2 | 13-0-39 |
| 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 345 | ★1 | 14-0-0 |
| D HYG 386 | ★2.5 | 15-0-45 |
| OBIOL 302 | ★3 | 45-0-0 |
| 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

| | | |
|----------------------|----|---------|
| ANTHR 393 or SOC 382 | ★3 | 39-0-0 |
| D HYG 413 | ★3 | 0-90s-0 |
| D HYG 414 | ★3 | 36-0-6 |
| D HYG 417 | ★3 | 39-0-0 |
| D HYG 418 | ★3 | 39-0-0 |
| D HYG 422 | ★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:

| | | |
|----------------------|----|--------|
| ANTHR 393 or SOC 382 | ★3 | 39-0-0 |
| D HYG 417 | ★3 | 39-0-0 |
| D HYG 418 | ★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:

| | | |
|--|-----|---------|
| ANTHR 393 or SOC 382 | ★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 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 and forward will be required to complete the following courses:

| | | |
|--|----|---------|
| ANTHR 393 or SOC 382 | ★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 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 is planned and administered by interdepartmental committees representing a broad range of basic science and clinical disciplines.

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

Years 3 and 4 are the clinical years, 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 clinical 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 (5 weeks)
- (2) DMED 512 (7 weeks)
- (3) DMED 513 (6 weeks)
- (4) DMED 514 (14 weeks)
- (5) MED 515 (17 weeks)
- (6) MED 516 (8 hours/week)
- (7) MED 517 (12 hours)
- (8) MED 519 (4 hours/week)
- (9) INT D 410 (0-32.5-0)

Year 2

- (1) MED 521 (6 weeks)
- (2) MED 524 (11 weeks)
- (3) MED 525 (4 weeks)
- (4) MED 522 (7 weeks)
- (5) MED 523 (7 weeks)
- (6) MED 526 (4 hours/week)
- (7) MED 527 (12 hours)
- (8) MED 529 (4 hours/week)
- (9) MED 520 (9 hours)
- (10) MED 518 (variable)

Year 3

- (1) MED 532 (2 weeks)
- (2) ANAES 546 (1 week)
- (3) F MED 546 (4 weeks)
- (4) MED 546 (11 weeks)
- (5) MED 547 (5 weeks)
- (6) OB GY 546 (6 weeks)
- (7) PAED 546 (6 weeks)
- (8) PSYCI 546 (6 weeks)
- (9) SURG 546 (6 weeks)
- (10) MED 531 (36 hours)
- (11) MED 543 (36 weeks)

Year 4

- (1) MED 555 (2 weeks)
- (2) MED 557 (8 weeks)
- (3) MED 558 (4 weeks)
- (4) PAED 556 (3 weeks)
- (5) SURG 556 (6 weeks)
- (6) MED 542 (3 weeks)
- (7) MED 541 (36 hours)
- (8) MED 540 (9 hours)
- (9) F MED 556 (3 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, 2J2.11 Walter C Mackenzie Health Sciences Centre.

114.7 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 240 (★6)
- (5) MLSCI 250 (★3)
- (6) MLSCI 262 (★3)
- (7) MLSCI 263 (★3)
- (8) MLSCI 270 (★2)
- (9) PHYSL (★6)
- (10) 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 430, 460, 466, 475, 481, MMI 426 or 427 or 405 or 415
- (2) MLSCI 480 (★3)
- (3) MLSCI 410 (★1)
- (4) Project course: INT D 491 (★6) or 409 (★3) and Science option (★3)
- (5) INT D 410 (★3)
- (6) Arts option (★3)
- (7) Approved 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.

114.8 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 practise 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) CHEM 101 (★3)
- (2) CHEM 102 (★3)
- (3) CHEM 164 or 261 (★3)
- (4) CHEM 263 (★3)
- (5) BIOL 107 (★3)
- (6) STAT 141 or 151 or 337 (★3)
- (7) MLSCI 241 (★6)
- (8) Approved MLS options (★6)
- (9) MLSCI 320 (★3)

Spring/Summer

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

Year 2

- (1) MLSCI 410 (★1)
- (2) MLSCI 480 (★3)
- (3) ★12 chosen from MLSCI 430, 460, 466, 475, 481, MMI 405 or 426 or 427 or 415

- (4) Project course INT D 491 (★6) or INT D 409 (★3) and Science option (★3)
- (5) INT D 410 (★3)
- (6) Arts option (★3)
- (7) Approved option (★3)

114.9 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, B-117 Clinical Sciences Building.

114.10 Degree of Bachelor of Medical Science

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

First and Second Year

Prerequisite courses required for entrance to the DDS or MD program.

Third and Fourth Year

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

Provisions

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

114.11 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.

114.12 Continuous Professional Learning

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

Inquiries about these programs should be directed to the Associate Dean, Continuous Professional Learning, 2J3 Walter C Mackenzie Health Sciences Centre, University of Alberta, Edmonton, AB T6G 2R7.

114.13 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.

114.14 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:

114.14.1 Primary Certification Programs

Anaesthesiology and Pain Medicine
 Anatomical Pathology
 Cardiac Surgery
 Community Medicine
 Dermatology
 Diagnostic Radiology
 Emergency Medicine
 General Pathology
 General Surgery
 Haematological Pathology
 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

114.14.2 Certificate of Special Competence Programs

Cardiology (Adult and Paediatric)
 Critical Care Medicine
 Endocrinology (Adult and Paediatric)
 Gastroenterology (Adult and Paediatric)
 Geriatric Medicine
 Haematology
 Infectious Diseases (Adult and Paediatric)
 Medical Oncology
 Nephrology (Adult and Paediatric)
 Occupational Medicine
 Paediatric Hematology/Oncology
 Respiratory (Adult and Paediatric)
 Rheumatology

114.14.3 Accreditation Without Certification Programs

Clinician Investigator Program
 Developmental Paediatrics
 Neonatal Perinatal Medicine
 Palliative Care Medicine
 Paediatric Emergency Medicine

Inquiries regarding these programs should be directed to the Associate Dean, Postgraduate Medical Education, 2-50 Medical Sciences Building, University of Alberta, Edmonton, AB T6G 2H7.

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 and Accreditation Without

Certification Programs require prior training in a Primary Certification Program. All international medical graduates must pass the Evaluating Examination and Part I of the Qualifying Examination of the Medical Council of Canada. Information is available from the Medical Council of Canada, Box 8234, Station T, Ottawa, ON K1G 3H7.

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

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

Further information regarding licensure is available from the College of Physicians and Surgeons of Alberta, #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.

114.15 Postgraduate Dental Education

114.15.1 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 healthcare 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 underserved areas of this province.

114.15.2 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 healthcare 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 Department of Dentistry in the General Practice Residency Clinic. 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 healthcare rotations by each resident to an underserved area of this province.

114.16 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, 2J2.11 WC Mackenzie Health Sciences 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 (MMI)
 Medicine (MED)
 Medicine, Interdepartmental (INT D and MED)
 Neuroscience (NEURO)
 Obstetrics and Gynaecology (OB GY)
 Oncology (ONCOL)
 Ophthalmology (OPHTH)
 Oral Biology (OBIBOL)
 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)