

Faculty of Medicine and Dentistry

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110 The Faculty of Medicine and Dentistry

Faculty Vision

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

Faculty Mission Statement

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

Values Statement

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

Respect and Caring: We respect and care for people.

Integrity: We maintain the highest levels of integrity.

Excellence: We strive for excellence in all our endeavours.

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

Stewardship of Resources: We ensure utilization of resources.

Faculty Overview

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

Number of Departments 20

Number of Divisions 11

Number of Research Groups 18

Number of Academic Staff 476

Number of Clinical Staff 1043

Number of Support Staff 988

Numbers of Students and Residents

Medical Students	511
Medical Residents	596
Dental Students	141
Dental Residents	3
Dental Hygiene Students	155
Medical Laboratory Science Students	53
Graduate Students:	224

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

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

111 The Professors

111.1 Teaching and Scholarship

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

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

In research, the Faculty attracted more than \$141 million in outside funding for 2003-2004, almost one-half of the total for the University of Alberta. Faculty researchers hold a number of prestigious honours including Fellows of the Royal Society (London and Canada), CIHR Distinguished Scientist, University Professor, Kaplan Laureates, Howard Hughes researchers, and CIHR Councillor. The Faculty is home to one of the National Centres of Excellence and members of faculty are collaborators in other Centres.

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

Members of the Faculty

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

Office of the Dean

Dean TJ Marrie	D Cave PG Cisar MR Cohen Y Csani-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 M Kruger 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 Petriw S Rabuka B Ramsey SJ Reid H Reine ZS Saleh H Sandhu L Scheeler S Scott M Simmonds C Tang BP Unger DH Wiebe	BD Lemire RN McElhane MC Schultz P Scott JC Stone BD Sykes *DLJ Tyrrell DE Vance JH Weiner
Vice-Dean J Ginsberg		Associate Professors LB Agellon *J Casey *G Francis JNM Glover *R Godbout A MacMillan D Stuart
Executive Director V Wulff		Assistant Professors *B Hazes C Fernandez-Patron L Schang L Spyrapopoulos K Wilson H Young
Associate Deans D Rayner C de Gara G Elleker T Feasby L Miedzinski J Jhamandas K Zakariasen		Professors Emeriti WA Bridger JS Colter RS Hodges CM Kay NB Madsen VH Paetkau LB Smillie
Assistant Deans M Moreau M Sagle V Yiu		Faculty Service Officers R Milner A Wright
Director, Equity & Assistant Professor L Breault		Administrative Officer GM Redmond
Faculty Service Officer D James		Biomedical Engineering
Administrative Officer C Iwanicka		Chair and Professor RE Burrell
Faculty Departments		Professors *KM Bagnall *KG Pearson *A Prochazka *RV Rajotte *RB Stein *JF Wolfaardt
Anesthesiology and Pain Medicine		Associate Professor AH Wilman *THA El-Bialy
Chair and Professor BA Finegan		Assistant Professors C Beaulieu *DJ Emery MA Gorassini KE Jones JR Lakey *L Le VK Mushahwar RB Thompson
Professors *AS Clanachan BT Finucane		Professors Emeriti PS Allen D Fenna DJ Griffiths TR Overton RE Snyder
Associate Professors RA Kearney S Rashiq B Tsui		Adjunct Professors D Bennet CJ Backhouse MR Doschak MG Faulkner F Fenrich
Assistant Professors S Gupta S Rashi		
Clinical Professor 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	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	
	Professors RC Bleackley DN Brindley *CE Cass MJ Ellison L Fliegel CFB Holmes MNG James	

G Kawchuk
ZJ Koles
D Li
NG Shrive
H Uludag

Cell Biology

Chair and Professor
RA Rachubinski

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

Associate Professors
L Berthiaume
*R Lehner
M Pasdar
E Shibusya
Z Wang

Assistant Professors
G Eitzen
*E Foley
T Simmen
A Simmonds

Professor Emeritus
RS Smith

Administrative Officer
KM James

Dentistry

Associate Dean and Chair
K Zakariasen

Professors
DN Dederich
FM Eggert
HE ElBadrawy
LW Kline
PW Major
WT McGaw
NC Milos
E Peters
JFL Pimlott
KM Polukoshko
PD Schuller
DA Scott
PG Scott
L Strain

Associate Professors
S Compton
E Edgington
T El-Bialy
U Nassar
DJ Pehowich
HK Tan

Assistant Professors
C Cable
S Cobban
G Heo

Clinical Professors
A Eastwood
B Gitzel
EA Krause
E McIntyre
SK Patterson
Z Pawliuk
D Pettigrew
C Revell
J Ritchie
JA Scott
EW Tunis
KW Wong
J Woronuk
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
CK Fialka-Eshenko
C Flores-Mir
P Gainer
S Ganatra
D Gotaas
M Howell
I Kuc
EWL Kwan
R Labahn
M Lah
S Lalh
VP Lee
T Lee-Knight
W Leung
J Lockau
K Lung
C MacDonald
DJ MacDougall
LR Moore
BR Neumann
M Parfitt
PL Pierce
W Preshing
W Primrose
P Schulte
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
J Croutze
J Doberstein
W Dobrovolsky
R Easton
D Eliuk
J Eliuk
A Fiorillo
K Habib
S Heglund
A Hoh
M Kaiser
L Kamelchuk
D Kelner
R Kretz
B Kula
M Kun
J Leakey
S Lockwood
D Lunardon
W MacKinnon
M Miller
I Ongaro
N Palmer
M Pokroy
R Schafers
A Sheppard
U Sz kudlarek
J Thomas
T Vankka
GP Wendell
D Wong
P Wooding
J Yacyshyn
C Yue
HC Yu

Clinical Assistant Professors

K Bapoo-Mohamed
DH Bédard
L Best
AH Brouwer
T Carlyle
J Cornish
J Croutze
J Doberstein
W Dobrovolsky
R Easton
D Eliuk
J Eliuk
A Fiorillo
K Habib
S Heglund
A Hoh
M Kaiser
L Kamelchuk
D Kelner
R Kretz
B Kula
M Kun
J Leakey
S Lockwood
D Lunardon
W MacKinnon
M Miller
I Ongaro
N Palmer
M Pokroy
R Schafers
A Sheppard
U Sz kudlarek
J Thomas
T Vankka
GP Wendell
D Wong
P Wooding
J Yacyshyn
C Yue
HC Yu

Clinical Instructors

S Ash
M Barnett
M Bennett
K Bieniak
M Bochinski
N Bornau
R Brisbane
S Brown
D Burnett
R Caldwell
A Chan
C Chiu
C Chomay
D Correia
J Dalmer
A Dekterov
W Dewar
H Dhaliwal
E Diduch
D Dietz
D Doderai
G Edwards
S Efliky
K Farrell
C Heath
I Hernandez
B Hoyano
L Hursin
J Jacob
P Kimos
M Knoefel
R Krim
R Kulshrestha
E Law
S Lee
K Lim
K Lloyd
D Lunardon
I Mah
V Mak
T Massini
P McIntyre-Schemerhorn
I McKee
J McLean
D Meador
G Mohr
J Ng
J Nijjer
R Nijjer
B Nordstrom
J Picard
K Popowich
R Pratt
K Raczynski
R Reiter
D Ricioppo
R Ridley
A Senior
T Shackleton
C Sheremata
M Sihota
K Steyn
S Switzer
B Ulmer
J White
J Wittchen
J Wood
P Wu
D Yeung
T Zukiwsky

Professors Emeriti

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

CH Pearson
JM Plecash
GW Raborn
AJ Simons
GH Sperber
NR Thomas
GW Thompson
NK Wood

Emergency Medicine

Acting Chair and Professor
BR Holroyd

Professors
B Rowe
*IP Steiner

Associate Professors
M Bullard
GE Cummings
*L Francescutti
*PW Yoon

Assistant Professor
*D Nichols

Clinical Professor
TD Sosnowski

Associate Clinical Professors
MA Cherniwchan
*D Mackey
W Patton
DL Shragge

Assistant Clinical Professors

B Bernardin
D Bond
HA Borkent
MJ Boulanger
JJ Brown
R Cunningham
S Dong
M Edmonds
CGM Evans
R Hansen
P Jain
R Kruhlik
R Lee
M Long
M Mrochuk
AR Murray
C Neal
SA Poplawski
DC Perry
C Rabuka
M Rico
W Sevcik
S Sookram
AF Walker

Adjunct Associate Clinical Professor
I Vicas

Clinical Lecturers

BL Abel
N Barclay
D Barer
B Brown
E Chang
S Chow
K Cromwell
M Curry
R Daloise
JMB Davidson
B Deane
B Diner
B Edgumbe
S Flanagan
K Foster
J Franc-Law
GAJ Groot
K Harris
D Hoshizaki
D Hryciuk
RJ Ibach
K Irwin
S Jones
K Lam

G Lung
K Mangan
J McKague
T Minish
J Mohler
W Molberg
M Moss
DW Neilsen
K Neilson
D Nichols
R Oland
RA Purser
E Rabin
D Reid
S Ross
G Scheirer
R Scheirer
L Shenfield
R Sherman
L Sim
B Singleton
A Stagg
TP Stetsko
DF Stewart
W Thirsk
A Ushko
F Voon
D Watrich
C Westover
R Yao
A Yeung
M Young

Adjunct Clinical Lecturer
A Lund

Adjunct Assistant Professor
J Sullivan
L Tchir
B Windwick

Family Medicine

Chair and Professor
GR Spooner

Professors

NR Bell
A Cave
RG Chaytors
MG Donoff
*NL Gibson
*B Holroyd
P Humphries
*P Jacobs
*N Keating
DG Moores
I Steiner

Associate Professors

FR Brenneis
R Brownoff
*GE Cummings
*BM Dobbs
*S Esmail
*RL Fainsinger
S Hughes
J Konkin
EH Krikke
D Ross
J Triscott
P Yoon

Assistant Professors

GM Allan
M Cave
AS Khera
D Klein
M Levy
D Manca
D Nichols
S Schipper
L Steblecki

Clinical Professors

K Gardener
*TD Sosnowski

Associate Clinical Professors

SK Aung
AE Ausford
G Blais
*MA Cherniwchan
I Colliton
N Flook
N Hans
H Hays
HR Hindle
M Hurlburt
*S Kelcher
CJ Lord
DS Mackey
EW Papp
J Parmar
*WF Patton
M Reedyk
EP Schuster
*DL Shragge
H Woytiuk
H Zirk

Assistant Clinical Professors

F Armstrong
PMD Armstrong
WD Armstrong
DH Banmann
JE Bell
*DW Bond
*HA Borkent
*M Boulanger
*JJ Brown
PA Caffaro
SW Chambers
AYL Chiu
WE Clelland
DJ Cook
*R Cunningham
*CGM Evans
TF Flanagan
K Ghali
CR Gingles
JG Gokiert
*T Graham
NM Gray
*MS Gross
FH Janke
RB Kaasa
DA Kent
MR Kolber
TD Kolotylyuk
*RT Kruhlik
GA Lamoureux
R Laughlin
*MJ Long
SE Low
LM Ma
DP Miller
*AR Murray
N Nanda
*SA Poplawski
TF Ranieri
JG Reilly
BD Ritchie
JM Robinson
WE Schneider
MR Smith
RM Stepanko
J Stickney-Lee
JR Tilley
*AF Walker
RJ Wedel
BRB Whittaker

Clinical Lecturers

M Abbasi
*BL Abel
KJM Abel
T Ali
JR Andreiuk
DM Andriashak
JB Armstrong
H Bablitz
I Bailes
AL Bailey
L Baker

T Bakshi
 *NG Barclay
 *DJ Barer
 P Barrett
 JB Barsky
 K Bennett
 L Bernier-Lycka
 S Beshai
 MM Bodmer
 DW Boettger
 MA Bowland
 BW Boyko
 TB Bray
 *RG Brown
 TJ Byers
 MJ Caffaro
 J Caufield
 DB Cave
 LA Charles
 JF Chiu
 JE Craig
 RF Crowe
 JA D'Costa
 NAC Da Cunha
 *BC Deane
 LD Dujon
 RH Dunbar
 LR Edwards
 SM Fairgrieve-Park
 *SD Flanagan
 SC Ghitler-Mannes
 AC Giggis
 JM Godel
 JJ Hankinson
 VM Hanlon
 BC Hayden
 TL Heisler
 ES Holmes
 *DJ Hryciuk
 AJ Jarema
 CG Johnston
 S Karpman
 PE Keith
 A Khan
 DG Killick
 M Knight
 DW Korzenowski
 D LaBuick
 DM Leung
 PJ Lewis
 MR Lidkea
 CC Lopaschuk
 B Lorrain
 KAH Lundgard
 *K Mangán
 PA Marner
 RA Martin
 GG Mazurek
 T McKeown
 BK McPeak
 AM Milne-Epp
 *JA Mohler
 *W Molberg
 EM Mori-Torres
 NJ Morison
 *MG Moss
 JD Murphy
 DL Myhre
 ED Ndovi
 S Needham
 *KD Neilson
 BL Oldale
 P Palma
 P Paludet
 DJ Paras
 AJD Pope
 *RA Purser
 R Rajput
 *DA Reid
 JD Ritchie
 JC Routledge
 PJA Ruiter
 DR Ryan
 G Salvalaggio
 JJ Saunders
 *GD Scheirer

N Shahoo
 *RK Sherman
 HS Sidhu
 N Sikorsky
 A Singh
 LL Smith
 H Sternberg
 *TP Stetsko
 *DF Stewart
 A Swinton
 A Tan
 M Taylor
 *AW Ushko
 J Weaver
 DA Webb
 DS Welch
 ML Wesner
 *CN Westover
 ML Wickland-Weller
 *AK Yeung
 *MJ Young

Professors Emeriti
 RR Cherry
 GL Higgins

Adjunct Professor Emeritus
 *E Waugh

Faculty Service Officer
 O Szafran

Adjunct Professor
 L Meadows

Laboratory Medicine and Pathology

Chair and Professor
 VA Tron

Professors

*BA Finegan
 LD Jewell
 *XC Le
 LE McGann
 *TW McGaw
 *J Preiksaitis
 RP Rennie
 K Solez
 *AR Turner

Associate Professors

FJ Bamforth
 *P Campbell
 GS Cembrowski
 B Chiu
 J Hugh
 HAA Idikio
 ES Johnson
 *K Kowalewska-Grochowska
 R Kumar
 R Lai
 PL Puttagunta
 DC Rayner
 L Resch
 LJM Russell
 G Tyrrell

Assistant Professors

J Acker
 T Chaba
 J Fuller
 MW Lee
 I Mirza
 S Nahirmiak
 XL Pang
 J Xing

Clinical Professors

RC Berendt
 DTP Dawson
 GP Dowling
 WS Etches
 TE Higa
 GH Johnson
 DF LeGatt
 *EH Schloss

Associate Clinical Professors

*R Bergstrom
 G Blakney
 G Clarke
 P Colbourne
 JM Danyluk
 *S Ganatra
 *J Hannon
 T Higgins
 GR Jones
 DW Kinniburgh
 GD Neuman
 C Prosser
 N Rayani
 WK Ready
 M Saddick
 ICF Sin
 *JA Talbot
 T Thay
 JP Vernick
 D Wenzel
 JR West
 DJ Willans
 HWA Wu

Assistant Clinical Professors

K Alanen
 LM Aye
 B Bannach
 H Berendt
 G Bigras
 S Brown
 SB Cheng
 LWL Chui
 C Ewanowich
 S Girgis
 HL Gritter
 SF Lee
 PL Letendre
 VL McCann
 DR McLean
 C O'Hara
 N Satkunan
 S Silverman
 J Slatnik
 L Thorlacius
 GO Wood

Professors Emeriti

MK Dasgupta
 *JB Dossetor
 PA Gordon
 LH Honore
 CC Lin
 GA Machin
 BW Mielke
 TK Shnitka
 RA Stinson
 RJ Swallow

Adjunct Professors

C Hao
 PN Nation
 P Petrik
 RF Power
 M Stewart
 *RW Yatscoff

Medical Laboratory Science

Director and Associate Professor

FJ Bamforth

Associate Professor

M Keelan

Assistant Professors

M Fraser
 LE Purdy
 CJ Ward

Lecturers

R Martindale
 A Nischuk
 EE Rivait

Clinical Lecturers

M Ackney
 R Cunningham
 J Gray
 R Lane

Administrative Officer

JL McPhee

Medical Genetics

Chair
 M Walter

Professors

*I MacDonald
 *H McDermid

Associate Professors

S Andrew
 JS Bamforth
 FJ Bamforth
 *D Gilchrist
 DM Glerum
 *OJ Lehmann
 NJ Leonard
 B Rannala
 MJ Somerville
 M Walter
 R Wevrick

Assistant Professors

SL Bleoo
 AJK Chan
 D Underhill

Assistant Clinical Professors

*R Mueller

Professors Emeriti

DW Cox

Medical Microbiology and Immunology

Chair and Professor

DH Evans

Professors

*D Befus
 *M Belosevic
 JF Elliott
 LJ Guilbert
 *PF Halloran
 *T Hobman
 RT Irvin
 K Kane
 *L Miedzinski
 *R Moqbel
 HL Ostergaard
 *LM Pilarski
 *C Power
 *JK Preiksaitis
 L Sigler
 JR Smiley
 DE Taylor
 *GD Taylor
 DLJ Tyrrell
 *JH Weiner

Associate Professors

M Barry
 D Burshtyn
 *AM Joffe
 K Kowalewska-Grochowska
 MS Pepppler
 *L Schang
 *GJ Tyrrell
 *W Vaudry

Assistant Professors

*C Anderson
 E Foley
 *S Fergie
 B Hazes
 *L Saxinger
 M Stein

Clinical Professors

SI Hnatko
 RP Rennie
 B Romanowski

Associate Clinical Professor

*J Robinson

Assistant Clinical Professors

A Chandran
 JC Galbraith
 B Lee
 J Nigrin
 R Verity

Professors Emeriti

JW Carmichael
 E Diener
 JMS Dixon
 FL Jackson
 BM Longenecker
 RG Marusyk
 JA Robertson
 RLS Whitehouse

Faculty Service Officers

D Dragon
 P Dickie
 J Gnarpe
 KK-Y Yu

Medicine

Chair and Professor

JB Meddings

Professor

*DL Saunders

Assistant Clinical Professor

*SK Aung

Administrative Officers

R Mah
 JC Morrison

Cardiology

Director and Professor

SL Archer

Professors

PW Armstrong
 JR Burton
 RT Tsuyuki
 WJ Tymchak

Associate Professors

B Cujec
 WA Dafoe
 KM Kavanagh
 SKM Kimber
 LD Lalonde
 ED Michelakis
 GJ Pearson

Assistant Professors

TJ Bungard
 MM Graham
 G Gyenes
 *MJ Kantoch
 PI Kaul
 DH Kim
 AA Pantano
 I Paterson
 BH Sonnenberg
 V Voner Muhll
 RC Welsh

Clinical Professors

PV Greenwood
 SS Gulamhusein
 WKK Hui
 Z Lakhani
 MPJ Senaratne
 DA Taylor

Associate Clinical Professors

NS Brass
 M Chan
 PK Cheung
 TK Fenske
 LA Kasza
 T Talibi
 RG Williams

Assistant Clinical Professors

JB Choy
 Y Fu

TG Muzyka
 KV O'Reilly
 ST Sivakumaran

Clinical Lecturers

DM Hammer
 AP Jones

Professors Emeriti

C Basualdo
 RS Fraser
 M Haraphongse
 BI Jugdutt
 RE Rossall

Adjunct Professor

WC Chang

Adjunct Assistant Professors

*MJ Haykowski
 *CM Norris

Adjunct Associate Clinical Professor

M Hoskins

Clinical Hematology and Medical Oncology

Director and Associate Professor

LM Larratt

Professors

*AR Belch
 *ED Bruera
 *ALA Fields
 *PA Gordon
 A Janowska-Wieczorek
 MJ Mant
 AR Turner

Associate Professors

*ARE Shaw
 *PM Venner

Assistant Professors

MA Hamilton
 DBC Ritchie

Clinical Professor

JM Turc

Associate Clinical Professor

*JL Hannon

Professor Emeritus

RN MacDonald

Dermatology and Cutaneous Sciences

Director and Associate Professor

GJ Lauzon

Associate Professors

AN Lin

Clinical Professors

DW Groot
 EH Schloss

Associate Clinical Professors

JY Liao
 DM Sawyer
 GE Searles

Assistant Clinical Professors

KW Alanen
 L Fiorillo
 PA Lubitz
 BAS Lycka
 J Rao
 MB Rogers
 MJA Sapiazsko
 BM Walters
 NR Wasel

Clinical Lecturers

TC Nakatsui

Adjunct Professor

K Jimbow

Distinguished Clinical Professor

J Brown

Endocrinology and Metabolism

Director and Professor
RZ Lewanczuk

Professors
*DN Brindley
CLY Chik
*DC Cumming
J Ginsberg
*S Harvey
*WA McBlain
DW Morrish
A Rabinovitch
EA Ryan
EL Toth
J Vance

Associate Professors
GA Francis
LE Mereu

Assistant Professors
BW Paty
PA Senior

Assistant Clinical Professors
PA Hardin
S Li
A Opgenorth
JS Romney

Professors Emeriti
PM Crockford
RN Eidem
DM Fawcett
GD Molnar

Gastroenterology

Director and Professor
RN Fedorak

Professors
VG Bain
*MT Clandinin
ABR Thomson

Associate Professors
LA Dieleman
K Goodman
LM Gramlich
K Gutfreund
M Ma
KL Madsen
AL Mason
DC Sadowski
WW Wong
*MI McBurney

Assistant Professors
*CJ Field
GS Sandha
CKW Wong

Clinical Professors
RJ Bailey
CM Switzer
RH Wensel
CN Williams

Associate Clinical Professors
EAG Lalor
JP McKaigney
*MS Millan
EA Semlacher

Assistant Clinical Professors
A Bala
RD Cherry
JP Ferguson
DN Todoruk

Professor Emeritus
RW Sherbaniuk

General Internal Medicine

Director and Associate Professor
WJ Coke

Professors
NE Brown
*SC Houston
BD O'Brien
*RZ Lewanczuk

Associate Professors
TD Duggan
BW Fisher
DM Gilchrist
PG Hamilton
*RSA Hayward
SR Majumdar
N Kassam
F McAlister
*AAC Yeung

Assistant Professors
*R Khurana
R Padwal
W Sia

Clinical Professors
WR Black
KC Bowering
NE Gibson
E Kretzul
*GF MacDonald

Associate Clinical Professors
*JS Archibald
N Dean
*WJ Dickout
*IA Ferguson
JT McCaffery
*MS Millan
JWI Morse
MG Nutting
E Raff
BJ Wirzba

Assistant Clinical Professors
J Allen
HA Bertozzi
AJ Brisebois
PM Buckle
RJ Burris
DA Campbell
R Chea
AR Grynch
A Hendricks
CF MacDonald
LER Malowany
M Moreau
JE Rouget
CL Simpson
DJ Tusz

Clinical Lecturers
A Bharmal
RA Hosein
GJ Hrynchynshyn

Professors Emeriti
LM Anholt
JB Dossetor
*RN Eidem
CH Harley
JC Hopkyns

Distinguished Clinical Professor
AJ Voth

Geriatric Medicine

Director and Associate Professor
KE Lechelt

Professor
PN McCracken

Associate Professor
AG Juby

Assistant Professors
K Alagiakrishnan
DB Rolifson

Associate Clinical Professor
*JA Triscott

Assistant Clinical Professors
PM Lawson
S Seneratne

Adjunct Associate Professor
JE McElhaney

Immunology and Nephrology

Director and Professor
BJ Ballerman

Professors
PF Halloran
KK Jindal

Associate Professors
PM Campbell
SM Cockfield
N Jahroudi
AW McMahon
AG Murray

Assistant Professors
MJ Courtney
SN Davison
S Gourishankar
JR Grynch
S Habib

SW Klarenbach
NI Pannu
MU Qarni
M Tonelli

Associate Clinical Professors
SS Caldwell
IA Ferguson

Assistant Clinical Professors
S Duggan
CW Johnston
A Pisani

Professors Emeriti
MK Dasgupta
*JB Dossetor
T Kovithavongs
RA Ulan
*DR Wilson

Infectious Diseases

Director and Professor
SD Shafran

Professors
SC Houston
DY Kunimoto
*TJ Marrie
LJ Miedzinski
JK Preiksaitis
*CL Soskolne
GD Taylor
*DLJ Tyrrell

Associate Professors
*L-J Chang
I Chiu
*MA Joffe

Assistant Professors
KE Doucette
LM Saxinger

Clinical Professor
R Romanowski

Associate Clinical Professor
LR Boychuk
AE Singh

Professor Emeritus
EA Fanning
G Goldsand

Neurology

Director and Professor
A Shuaib

Professors
MG Elleker
TE Feasby
JH Jhamandas
WR Martin

C Power
KG Warren

Associate Professors
JRM Camicioli
DS Fulton
WSW Johnston
S Kar

Assistant Professors
N Ahmed
G Blevins
F Giuliani
DW Gross
TJ Jeerakathil
KA Khan
S Kalra
TE Roberts
MA Saqqur
ZA Siddiqi
*BD Sinclair
*KG Todd

Associate Clinical Professors
ML Myles
E Starreveld
C Tai
NJ Witt

Assistant Clinical Professors
RN Roberts
P Stenerson

Clinical Lecturers
B Marynowski
BJ Stewart

Professors Emeriti
MH Brooke
G Monckton

Adjunct Professor
SA Warren

Adjunct Associate Professor
NL Ashworth

Pulmonary Medicine

Director and Professor
I Mayers

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

Associate Professors
*PA Hessel
EYL Wong

Assistant Professors
M Bhutani
L Cheung
RW Damant
*M Duszyk
P Lacy
NM Skjodt
D Vethanayagam
H Vliagoftis
JG Weinkauff

Clinical Professors
NRT Gibney
TK Lee
GF MacDonald

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

Assistant Clinical Professors
LS Melenka
A Shustak

Adjunct Professor
DA Enarson

Professors Emeriti
FA Herbert
BJ Sproule

Rheumatology

Director and Assistant Professor
JE Homik

Professors
SL Aaron
P Davis
WP Maksymowych

Assistant Professors
SO Keeling
*M Suarez-Almazor
EA Yacyshyn

Clinical Professor
R Ferrari

Associate Clinical Professor
KJ Skeith

Assistant Clinical Professors
PL Chiu
DE Sholter
A Yan

Professor Emeritus
AS Russell

Obstetrics and Gynaecology

Chair and Professor
JW Faught

Professors
DC Cumming
NN Demianczuk
BF Mitchell
DM Olson
RW Turnell

Associate Professors
VA Capstick
R Chari
ST Davidge
CG Flood
M Sagle
A Schepansky
J Schulz

Assistant Professors
S Baydock
S Chandra
D Hemmings
T Motan
H Steed

Clinical Professors
JJ Boulton
LG Evenson
CF Hoskins
S Langton
M Lieberman
G Sabourin
SN Schuurmans
IV Tataryn

Associate Clinical Professors
G Black
R Black
M Bow
R Chua
T Corbett
TP Gleason
S Genius
DJ Hodges
G Iwaniuk
A Lee
M Lieberman
MS Mah
R Uretsky

Assistant Clinical Professors
D Barreth
RJ Brown

S Brown
E DeDoming
S Gross
G Jiwa
AM Long
J Mayo
JM McCubbin
V Pramod
M Roy
W Sia
F Tam
J Tinkel
M Tauh
F Tsui
T Unger
P Verma
C Wittner-Smith
B Wong
W Young

Clinical Lecturers
MJO Coe
C Linton
B Muir

Professors Emeriti
RP Beck
DL Dunlop
L Honore
M Radomski

Adjunct Professor
S Reid
S Tough

Oncology

Chair and Professor
CE Cass

Experimental Oncology

Director and Professor
D Murray

Professors
R Godbout
B McBlain
LM Pilarski
ARE Shaw
MJ Turner
J Tuszyński
M Weinfeld

Associate Professor
MJ Hendzel

Assistant Professors
G Chan
MM Hitt

Adjunct Professors
*TM Allen
*WP Gati
*PE Grundy

*A Janowska-Wieczorek
*V Tron
*L Wiebe

Adjunct Associate Professor
*CG Miller

Adjunct Assistant Professor
*S Andrew

Lecturer
R Mirzayans

Faculty Service Officer
X Sun

Medical Oncology

Director and Professor
PM Venner

Professors
AR Belch
ALA Fields

Associate Professors
JR Mackey
M Smylie
K Tonkin

Associate Professors

SC Barton
CG Benishin
X-Z Chen
M Duszyk
GD Funk
JJ Greer
*RZ Lewanczuk
PV Nguyen

Assistant Professor

*Y Sauve

Professors Emeriti

KJ Hutchison
E Karpinski
RB Stein

Adjunct Professors

*GR Foxcroft
*RL Jones

Psychiatry**Acting Chair and Professor**

GB Baker

Honorary Professor

El Picard

Professors

AJ Greenshaw
GS Hnatko
AS Joyce
SC Newman
PH Silverstone

Associate Professors

NJ Coupland
W Friend
S Kar
J LeMellédo
P Tibbo
K Todd

Assistant Professors

A Choy
B Dick

Clinical Professors

AM Carroll
JL Banasch (Associate Chair)
J Beach
P Beausejour
M Blackman
CA Blashko
AB Bremness
KM Collinson
P Copus
N Costigan
J Eustace
P Flor-Henry
KD Gendemann
A Gordon
CA Hapchyn
RE Hibbard
L Kagan
J Kennedy
S Levin
M McCallum
JG O'Kelly
L Pawluk
HM Piktel
JS Rosie
PM Segal
T Snyder
B Sowa
PI Steinberg
L Struder
LB Warneke
PJ White (Associate Chair)
HM Wojcicki
M Yalho

Associate Clinical Professors

LM Adams
C Buchholz
O Cadsy
PE Carr
WT Chimich
P Chokka

P Chue
JM Dewart
R Drebit
RJ Dyck
W Friend
DR Guinhawa
RA Gurke
E Lobo
WA McCay
P Mills
BR Mirtle
JW Osinchuk
MB Parsons
SE Purdon
JK Rodgers
BS Sanderman
D Shih
L Studer
M Swanson
M Tweddle
DYW Wong

Assistant Clinical Professors

GR Acton
H Anand
B Bishop
D Block
C Carter
I Chohan
G Cummins
M Demas
S Dobrofsky
C Els
CK Froelich
DR Ginter
N Hanon
JM Hinton
O Hodlevsky
A Holt
ND John
AL Khaliq
K Lawless
A Leung
RC Lundeen
R Maitra
S Matthews
E McKaigney
DW Meakins
J Mejia
C Moreau
F O'Croinin
WF Otto
LJ Phillips
A Poukhovski
T Prior
JR Scott
Y Shapiro
B Stich
RP Taubner
L Urchuk
A Witol
N Youssef

Clinical Lecturers

F Bahrey
D Bailey
S Bowman
M Buchinski
L Caffaro
J Carr
J Caryk
J Chu
A Cojocar
K Costello
R Dempsey
SC Duncan
J Edstrom
C Els
N Fisher
FM Fogarty
T Hughie
KL Kirdeikis
K Lefko-Singh
TR Leiper
D Li
J Long
D Lyon

S Mitchell
C Morhaliek
G Mowat
P Nadon
D Nahirney
SP Nigam
J O'Mahoney
CL Phillips
R Russell
S Santana
G Schoepp
V Singh
DL Spaner
D Spence
C Steinberg
L Stovel
F Ullah
J Ustina

Professors Emeriti

RC Bland
RT Coutts
P Hays
B Sinha

Administrative Officer

L Berends

Adjunct Professors

AN Bateson
N el-Guebaly
*KM Hegadoren
*MB Parent
H Pazderka-Robinson
WE Piper
B Rowe
E Starreveld
GD Watson
NJ Witt
J Yager

Adjunct Associate Professor

P Nguyen

Adjunct Assistant Professor

S Duggal
A Holt

Public Health Sciences**Chair and Professor**

N Cherry

Professors

S Hrudey
P Jacobs
J Johnson
W Kipp
LM Laing
XC Le
D Menon
*SE Newman
DL Saunders
A Senthilselvan
CL Soskolne
Y Yasui

Associate Professors

J Beach
L Carroll
*T Caulfield
*G Griener
L Francescutti
J Carr
*K Goodman
A Ohinmaa
C Phillips
KV Rondeau
L Shanner
A Thompson
P Veugelers
TC Wild

Assistant Professors

I Burstyn
G Jhangri
*A Jones
DJ Kutsogiannis
XF Li
J Martin
P Rothe

Clinical Professors

*S Patterson

Associate Clinical Professors

N Bayliss
K Grimsrud
G Keays
G Preddy

Clinical Assistant Professors

B Russell
S Virani

Clinical Lecturer

S Plitt

Professors Emeriti

KS Bay
*A Fanning
C Meilicke
SM Stinson
D Wilson

Adjunct Professors

*N Bell
*KC Carriere
R Coppock
*EA Fanning
*D Feeny
S Gabos
G Gibbs
*N Gibson
D Hailey
*R Hayward
*B Holroyd
J Howell
*T Klassen
*B Rowe
*M Stewart
*R Tsuyuki
*K Zakariassen
SC Weatherill

Adjunct Associate Professors

G Benade
DA Birkholz
B Brownlee
T Chowdhury
KJ Corbet
D Davis
H Fatou
*B Fisher
GC Granville
K Hrudey
P Hassen
H Hoffman
*S Houston
M Johnson
JD Johnston
D Menon
*D Kahane
VG Lappi
B Lauber
*S Majumdar
RC May
*L Mitchell
KR Nickerson
*DI Philippon
*R Plotnikoff
D Schopflocher
*D Smith
*D Spady
R Stacy
*J Talbot
*K Tomic
*S Vohra

Adjunct Assistant Professors

*N Ashworth
D Cassidy
P Clarke
K Fassbender
N Fok
K Froese
B Hohn
G Jayaraman
T Lawley
P Lightfoot
*F McAlister

L McNamara
L Reynolds
B Stephens
L Svenson
*M Tonelli
O Triska
JZ Xing
W Yacoub

Radiology and Diagnostic Imaging**Diagnostic Radiology****Chair and Associate Professor**

RGW Lambert

Program Director & Associate Clinical Professor

E Wiebe

Professors

*PS Allen
*AJB McEwan
*A Walji

Associate Professors

R Bhargava
D Emery

Assistant Professors

*C Beaulieu
S Dhillon
LJ Filipow
*A Joshua
L Le
M Noga
R Owen
*AH Wilman

Clinical Professors

G Andrew
*M Grace
RC Hennig
MA Johnson
MT Sin

Associate Clinical Professors

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

Assistant Clinical Professors

S Adams
S Appavoo
W Berezowsky
A Bistriz
B Campbell
K Cheung
C Chmielowiec
N Cochrane
T Elliot
D Foster
S Greenspan
BD Guspie
R Holub
T Horwitz
WG Keenan

A Kumar
N Lakis
K Lee
C Lummer
KG Magnus
P Maguire
M Mah
M McCarthy

S Naik
KF O'Kelly
W Parker
L Paskar
V Patel

EJ Preville
KN Puznak
B Rawat
H Shein
R Sherlock
T Spiers

A Stewart-Kanigan
W Sugars
JF Swersky

AS Tang
B Taylor
JGE Turner
R Turner
G Van Der Merwe
B Ward
T Yeo

AS Tang
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AS Tang
B Taylor
JGE Turner
R Turner
G Van Der Merwe
B Ward
T Yeo

*T Gordon
 *AJ Greenshaw
 JJ Greer
 *S Harvey
 *JH Jhamandas
 *TL Krukoff
 S Kumar
 *WR Martin
 D Pilgrim
 *A Prochazka
 *A Shuaib
 *P Silverstone
 *PA Smith
 A Spencer
 D Treit
 *J Yager
 J Yang

Associate Professors

*N Ashworth
 CA Boliek
 R Cabeza
 *R Camicioli
 *KM Chan
 F Colbourne
 CT Dickson
 G Funk
 *S Kar
 J Misiaszek
 *P Nguyen
 *KG Todd
 *A Tse
 *F Tse
 R Wevrick
 D Wong-Wylie
 EP Zehr

Assistant Professors

DW Ali
 D Collins
 B Dick
 K Fouad
 *M Gorassini
 KM Hegadoren
 K Jones
 *D Livy
 BKV Maraj
 *V Mushahwar
 E Posse de Chaves
 CT Putman
 Y Sauve
 C Sturdy
 *P Tibbo
 D Weber
 CF Westbury

Clinical Professors

P Flor-Henry
 *KC Petruk

Adjunct Professors

*JC Lind

Emeritus Professors

*RB Stein
 AR Dobbs

Physical Medicine and Rehabilitation Medicine

Director

N Ashworth

Professors

T Gordon

Clinical Professors

LA Bellamy (Emeritus)
 M Watt

Associate Professors

KM Chan
 L Satkunam
 RS Burnham
 S Gray

Assistant Professor

J Hebert
 D Naidu

Associate Clinical Professors

JB Guthrie
 JM Nagy

Assistant Clinical Professors

M DiPersio
 E Sampson
 C Tuchak
 J Townsend

Clinical Lecturers

J Irvine
 S Zaki

Adjunct Professors

B Dafoe
 N Dean
 P Gordon
 *RB Stein

Studies in Medical Education

Director and Professor

*DA Cook

Associate Director and Professor

*SL Aaron

Educational Associates

*FR Brenneis (Family Medicine)
 *VA Capstick (Obstetrics and Gynecology)
 *CI Cheeseman (Physiology)
 *C de Garas (Associate Dean, Continuing Education, Medicine—Rheumatology)
 *MG Donoff (Family Medicine)
 EG Hunter (Pharmacology)
 NJ Leonard (Genetics)
 L Miedzinski (Infectious Diseases)
 J Parmar (Geriatric Medicine)
 *DC Rayner (Associate Dean, UGME, Laboratory Medicine and Pathology)
 *B Roed (University Teaching Services)
 K Stobart (Pediatrics)
 *DLJ Tyrrell (Medical Microbiology and Immunology)
 *AH Walji (Anatomy)

Research Associates

*D Blackmore (Medicine Council of Canada)
 *BW Fisher (Medicine-General Internal Medicine)
 L Laing (Public Health Sciences)

Professors Emeriti

G Goldsand
 *TO Maguire

Faculty Service Officer and Adjunct Associate Professor

D Harley

Surgical-Medical Research Institute

Director and Professor

*RV Rajotte

Additional Members of Faculty Council

President and Vice-Chancellor

IV Samarasekera, OC

Representatives

J Buckingham (Medical Librarian)
 C Byrne (Registrar, U of A)
 H Campbell (Alberta Dental Association)
 G Taylor (Faculty of Science)
 A Cook (Dean, Faculty of Rehabilitation Medicine)
 ALA Fields (Cross Cancer Institute)
 R Bland (Alberta Mental Health Board)
 M Gormley (Alberta Medical Association)

M Mahon (Dean, Faculty of Physical Education & Recreation)
 B Horsburgh (Dean, Faculty of Nursing)

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

S Paul (Community Care & Public Health, CHA)

R Ponech (Senate Liaison)

L Best (Senate Liaison)

G Prey (Medical Officer of Health, CHA)

K Keough (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.

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) An accredited three-year program leading to the Diploma in Dental Hygiene or a four-year program awarding a Bachelor of Science (Dental Hygiene Specialization).
- (4) MSc and PhD degrees in Medical Sciences (Dentistry).
- (5) MSc and PhD degrees and certificate in Medical Sciences (Orthodontics).
- (6) The Department of Dentistry sponsors a wide variety of continuing dental education opportunities throughout the year through the Continuing Dental Education program. Courses are offered both on campus and occasionally at other sites within the province. Annually, thousands of dentists, dental hygienists, dental assistants and others participate in the many lecture, hands-on clinical and laboratory type courses that are offered. Local and visiting speakers of national and international reputation provide continuing education of a high quality.

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

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 the Capital Health Region of Alberta. The Faculty is located in the Walter C Mackenzie Health Sciences Centre (which includes the University of Alberta Hospitals), the Heritage Medical Research Centre, the Medical Sciences, Clinical Sciences, and Dentistry Pharmacy Centre Buildings.

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.

112.3 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 2005–2006; figures are subject to change without notice.

Additional Costs for DDS Students	Year 1	Year 2
Books	1,200	1,100
Dental Kits	10,000	3,000
Dental Students Association	170	170
	Year 3	Year 4
Books	600	400
Dental Kits	3,000	500
Dental Students Association	170	170
National Dental Board Exam	N/A	2,250

112.4.2 Dental Hygiene Diploma

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

Note: The figures are based on 2005–2006; figures are subject to change without notice.

Additional Costs for DH Students	Year 2	Year 3
Books	900	600
Dental Hygiene Kits	5,500	2,450
Membership Fees	90	90
Professional Exam Fee	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 2005–2006; 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 §112.6.3)

112.4.5 Advanced Placement Program (DDS)

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

Note: The figures are based on 2005–2006; figures are subject to change without notice.

Additional Costs for Students	Year 1	Year 2
Books	2,900	400
Dental Kits	12,000	8,000
Membership Fees	170	170
National Dental Board Exam	N/A	2,250

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 Placements, Professional Practice and the Public Interest and §87, *GFC Policy Manual*).
 - (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
 - (4) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.
 - (5) On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
 - (6) **Reexaminations**
 - a. Students are allowed reexamination privileges only in courses that are failed.
 - b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
 - c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.
 - d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
 - 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 §30.3.3 of the *GFC Policy Manual*).
 - (12) **Medical Examination:** Students admitted to the DDS 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 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 Dentistry, 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: Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B “e” antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B “e” or Hepatitis B viral DNA is positive the offer of acceptance will be withdrawn and registration in the DDS program will not be completed (see §15.9.7).

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

At all times students will follow *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 Placements, Professional Practice and the Public Interest and §87, *GFC Policy Manual*.)
- (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
- (4) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.
- (5) On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
- (6) **Reexaminations**
 - a. Students are allowed reexamination privileges only in courses that are failed.
 - b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
 - c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.

- d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
 - e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
 - f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
 - g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
 - h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
 - i. Reexaminations in both years of the Program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee.
- (7) **Academic Standing:** Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee.
 - a. No student may proceed to next year of the Program and will be required to withdraw unless they have passed all courses for that academic year.
 - b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.
 - c. Students in the DDS Advanced Placement Program are not eligible for awards.
 - (8) **Regulations Concerning Repetition of a Year because of Academic Failure:** Students in the DDS Advanced Placement Program will not be permitted to repeat a year.
 - (9) **Voluntary Withdrawal:** A student in the DDS Advanced Placement Program who chooses to withdraw, forfeits the position and will not be readmitted.
 - (10) **Faculty Advisor:** At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty and/or Department.
 - (11) All students registered in the DDS Advanced Placement Program are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association and College. This registration permits the practice of dentistry within the confines of the formal dental curriculum. Students in the program are required to adhere to the professional code of ethics of the Alberta Dental Association and College (See §30.3.3 of the *GFC Policy Manual*).
 - (12) **Medical Examination:** Students are required to present a certificate of satisfactory medical examination from a physician of a University of Alberta Health Centre as part of the Faculty requirement before the Preclinical Assessment period.

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 tuberculin skin test are required in the first year of the program and should be performed by the University of Alberta Health Centre.

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

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

At all times students will follow *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.

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

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

- (1) Certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required.
- (2) Students entering the Dental Hygiene program may be granted credit for courses completed that are deemed by the Program Director, in consultation with the course coordinator and the Chair of the Department Academic Standing Committee, to be demonstrably equivalent to courses for which credit is being sought.

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

- (3) The Associate Dean/Department Chair, or Supervisor acting on behalf of the Associate Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Associate Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87, *GFC Policy Manual*.)
- (4) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established within the Faculty and the University. Students must satisfactorily complete all components of all courses.
- (5) Recommendations for promotion and graduation are based on a grade of at least D in each subject and a GPA of at least 2.0.

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

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

- (7) **Reexaminations:** See §23.5.5.

- 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. Regardless of the mark awarded in a reexamination, the final course grade may not exceed C+. Reexamination results do not alter the student's class standing.
- Any student who, after reexamination and/or evaluation fails to meet promotion/graduation requirements, is deemed to have failed the year.
- A student who does not take a reexamination within the time period prescribed by the Faculty will not be allowed to continue in the program.
- 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

- 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.
- 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.

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

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

- Review, by the Faculty of the reasons for withdrawal and the student's academic record;
- Availability of a place, within quota, in the class to which the student is seeking readmission. Priority will be assigned in the following order:
 - Students who have met normal promotion requirements.
 - Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing.
- The length of time the student interrupts studies leading to the Dental Hygiene Diploma or Bachelor of Science (Dental Hygiene Specialization) programs must not exceed two years in total.

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

(14) **Medical Examination:** Students admitted to the Dental Hygiene 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 tuberculin skin test are required in the first year of the program and should be performed by the University of Alberta Health Centre.

For students in Dental Hygiene, 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: Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre at the University of Alberta. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B “e” antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B “e” antigen or Hepatitis B viral DNA is positive, the offer of acceptance will be withdrawn and registration in the Dental Hygiene Program will not be completed. (See §15.9.4).

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

At all times students will follow *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.

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

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

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 Placements, Professional Practice and the Public Interest and §87, *GFC Policy Manual*.)
- (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another according to the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades, but students are informed at the beginning of the course how grades are to be determined.
- (4) Students are advised at the beginning of each course, and year of the attendance requirements of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required

by the Faculty and the University. Students who are absent for more than two days in any course in which attendance is compulsory will not be given credit for that course and will be asked to repeat the course. Students must satisfactorily complete all components of all courses.

- (5) Comprehensive Examinations:
 - 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 §30.3.3 of the *GFC Policy Manual*).
- (13) **Medical Examination**

Students admitted to the MD Program are required to present a certificate of satisfactory medical examination from a University of Alberta Health Centre physician. This requirement must be met before 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 (§87, *GFC Policy Manual*).

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

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 §195 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	10 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	20 weeks
DDS 532	★4	60-0-0
DDS 533	★2	30-0-0

Year 3

DDS 541	★1	15-0-0
DDS 545	★52	40 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
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114.3 DDS Advanced Placement Program

General Information

The Department of Dentistry offers an advanced placement DDS degree to a selected number of students who already possess a dental degree from a dental program recognized by the World Health Organization. After 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	40 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
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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 201	★3	39-0-0
D HYG 202	★1	14-0-2
D HYG 211	★5.5	84-0-0
D HYG 212	★6	0-0-180
D HYG 213	★3	0-99c-3
D HYG 215	★2	28-0-0
D HYG 220	★3	28-0-26
D HYG 230	★1.5	20-0-0
D HYG 232	★1.5	14-21c-0
D HYG 240	★2	28-0-9
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	0-484c-0
D HYG 316	★2.5	28-12c-0
D HYG 317	★3	45-0-0
D HYG 321	★2	13-0-39
D HYG 322	★2	28-0-0
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	★7	20-150c-20
D HYG 417	★3	39-0-0
D HYG 420	★3	39-0-0
D HYG 422	★3	39-0-0
D HYG 440	★3	39-0-0
(or equivalent health promotion course)		
REHAB 468	★3	39-0-0
(or equivalent health research course)		
SOC 210	★3	39-0-26
(or equivalent statistics course)		
One Option	★3	39-0-0
(at the 300- or 400-level with the approval of Program Director)		

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 420	★3	39-0-0
(or equivalent health promotion course)		
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)		

Program B

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

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

The degree completion program consists of the following courses:

ANTHR 393 or SOC 382	★3	39-0-0
D HYG 417	★3	39-0-0
D HYG 420	★3	39-0-0
(or equivalent health promotion course)		
D HYG 422	★3	39-0-0
(or equivalent health promotion course)		
REHAB 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)		

Program C

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

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

ANTHR 393 or SOC 382	★3	39-0-0
D HYG 417	★3	39-0-0
D HYG 420	★3	39-0-0
(or equivalent health promotion course)		

D HYG 422	★3	39-0-0
D HYG 440	★3	39-0-0
REHAB 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)		

Program D

Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion Program: University of Alberta, Dental Hygiene Diploma Graduates (Year 2008 and forward).

Graduates of the University of Alberta Dental Hygiene Program of 2008 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 420	★3	39-0-0
(or equivalent health promotion course)		
D HYG 422	★3	39-0-0
D HYG 440	★3	39-0-0
REHAB 468	★3	39-0-0
(or equivalent health research course)		
Four options	★12	156-0-0
(with approval of Program Director, two at the 300- or 400-level)		

114.5 MD Degree

General Information

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

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

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

Orientation

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

Course Requirements

Year 1

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

Year 2

- (1) 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 (8 hours/week)
- (7) MED 527 (12 hours)
- (8) MED 520 (9 hours)
- (9) MED 518 (variable)

Year 3

- (1) MED 532 (3 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)

Year 4

- (1) MED 555 (2 weeks)
- (2) MED 557 (5 weeks)
- (3) MED 558 (4 weeks)
- (4) PAED 556 (3 weeks)
- (5) PSYCI 556 (3 weeks)
- (6) SURG 556 (6 weeks)
- (7) MED 542 (3 weeks)
- (8) MED 541 (36 hours)
- (9) MED 540 (9 hours)
- (10) 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 paraprofessional year and Phases I and III of the program are normal university years. Phase II, beginning approximately July 1, consists of clinical hospital laboratory training under the direct supervision of the Faculty of Medicine and Dentistry. If successful in their clinical phase, students may write certification examinations with the Canadian Society for Medical Laboratory Science.

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

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 230 (★3)
- (2) MLSCI 235 (★1)
- (3) MLSCI 240 (★6)
- (4) MLSCI 250 (★3)
- (5) MLSCI 262 (★3)
- (6) MLSCI 263 (★3)
- (7) MLSCI 270 (★2)
- (8) PHYSL (★6)
- (9) 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 161 (★3)
- (3) CHEM 263 (★3)
- (4) BIOL 107 (★3)
- (5) STAT 141 or 151 or 337 (★3)
- (6) MLSCI 241 (★6)
- (7) Approved MLS options (★9)
- (8) 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, 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 and PhD degrees, as well as a Postgraduate Diploma in Health Services Administration. The Department of Dentistry also offers an MSc Degree in Orthodontics. Details on these programs can be found in the Graduate Programs section of the Calendar, listed by department.

114.12 Continuing Medical Education and Multimedia Production Services

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

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

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

Anaesthesia
 Anatomical Pathology
 Cardiac Surgery
 Dermatology
 Diagnostic Radiology
 Emergency Medicine
 General Pathology
 General Surgery
 Haematological Pathology
 Internal Medicine
 Medical Microbiology
 Neurology (Adult and Pediatric)
 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
 Endocrinology
 Gastroenterology
 Geriatric Medicine
 Haematology
 Infectious Diseases
 Medical Oncology
 Nephrology
 Paediatric Cardiology
 Paediatric Endocrinology and Metabolism
 Paediatric Infectious Diseases
 Pulmonary Medicine
 Rheumatology

114.14.3 Accreditation Without Certification Programs

Clinician Investigator Program
 Critical Care Medicine
 Neonatology
 Palliative Care Medicine
 Pediatric 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, #900, 10180-101 Street, Edmonton, AB T5J 4P8.

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

115 Courses

Faculty of Medicine and Dentistry courses are listed in §221, Course Listings, under the following subject headings:

Anaesthesia (ANAES)
 Anatomy (ANAT)
 Biochemistry (BIOCH)
 Biomedical Engineering (BME)
 Cell Biology (CELL)
 Dentistry (DDS)
 Dentistry (DENT)
 Dentistry/Medicine (DMED)
 Dental Hygiene (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 (OBIOL)
 Paediatrics (PAED)
 Pharmacology (PMCOL)
 Physics/Biomedical Engineering (PH BE)
 Physiology (PHYSL)
 Postgraduate Medical Education (PGME)
 Psychiatry (PSYCI)
 Public Health Sciences (PHS)
 Radiology and Diagnostic Imaging (RADDI)
 Surgery (SURG)