

Faculty of Medicine and Oral Health Sciences



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90 The Faculty of Medicine and Oral Health Sciences

Faculty Vision

To be recognized as outstanding leaders internationally for the quality of our education, research, service and people, which together make essential contributions to the health of current and future generations.

Faculty Mission

The Faculty of Medicine and Oral Health Sciences is dedicated to the improvement of health through the excellence and leadership in health care, medical education, and medical research. Our mission is to prepare physicians and dentists to provide the highest quality of health care to the people of Alberta and beyond, and to advance knowledge and skills through fundamental, clinical, and applied research.

Faculty Overview

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

Number of Departments	20
Number of Divisions	11
Number of Research Groups	14
Number of Academic Staff	356
Number of Clinical Staff	790
Number of Support Staff	235
Number of Trust Employees	708

Numbers of Students and Residents

Medical Students	420
Medical Residents	470
Dental Students	128
Dental Residents	3
Dental Hygiene Students	110
Medical Laboratory Science Students	75
Graduate Students:	317

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 Oral Health Sciences
2J2.00 W.C. Mackenzie Health Sciences Centre
University of Alberta
Edmonton, Alberta, Canada T6G 2R7
(403) 492-6621; FAX (403) 492-7303
<http://www.med.ualberta.ca>

91 The Professors

91.1 Teaching and Scholarship

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

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

In research, the Faculty attracted more than \$50 million in outside funding for 1996-97, almost one-half of the total for the University of Alberta. Faculty researchers hold a number of prestigious honours including Fellows of the Royal Society (London and Canada), MRC Distinguished Scientist, University Professor, Kaplan Laureates, Howard Hughes researchers, and MRC Councillor. The Faculty is home to one of the National Centres of Excellence and members of faculty are collaborators in others of the Centres.

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

Members of the Faculty

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

Office of the Dean

Dean
DLJ Tyrrell

Associate Deans

RA Bear
P Davis
G Goldsand
PA Gordon
GW Raborn
AH Walji
JH Weiner

Assistant Deans

CG Baker
CI Cheeseman
WA McBlain
MC Palmer
BR Stevenson

Faculty Service Officers

V Chlumecky
DM Gupta

Administrative Officers

BK Esslinger
P Stack

Faculty Departments

Anaesthesia

Chair and Professor
BT Finucane

Professor
*AS Clanachan

Associate Professor
BA Finegan

Assistant Professors
SN Gupta
RA Kearney

Clinical Professor
RC Gregg

Associate Clinical Professors

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

Assistant Clinical Professors

RG Bergstrom
BJ Bucyk
JG Cormack
DJ Cubitt
DR Gamez
CR Guenther
AS Guest
IA Hopkins
LY Huang
V Jensen
JT Lilley
BA Lyder

TA Mayson
JD McFarland
DA Mercereau
K Munn
WJ Murtha
SG Nadeau
CJ Noble
SA Olson
YM Patel
GA Perez
BZ Petriw
H Reine
SL Scott
RF Seal
JD St Clair
RJ Taggesell
C Tang
DH Wiebe

Clinical Lecturers

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

Professors Emeriti
DF Cameron
JWR McIntyre

Biochemistry

Chair and Professor
VH Paetkau

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

Associate Professors

L Fliegel
*R Godbout
CFB Holmes
BD Lemire
*RJ Read
SA Rice
SM Rosenberg
JC Stone

Assistant Professors

LB Agellon
*L Berthiaume
JNM Glover
MC Schultz

Professors Emeriti

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

Faculty Service Officer
WT Wolodko

Administrative Officer
GM Redmond

Biomedical Engineering

Chair and Professor
PS Allen

Professors

BJ Andrews
DJ Griffiths
ZJ Koles
*RV Rajotte
RE Snyder
*FX Witkowski

Associate Professor

*SA Jackson

Assistant Professors

H Uludag
AH Wilman

Professors Emeriti

D Fenna
TR Overton

Adjunct Professors

*RH Hooper
*A Kostov
JF Wolfaardt

Cell Biology and Anatomy

Chair and Professor
RA Rachubinski

Professors

KM Bagnall
DA Begg
RB Campenot

Associate Professors

*WJ Gallin
TL Krukoff
P Melançon
M Pasdar
DN Singh
BR Stevenson
AH Walji

Assistant Professors

J Aitchison
L Berthiaume
T Hobman
*D Pilgrim
E Shibuya
R Wozniak

Professors Emeriti

TS Leeson
K McFadden
RS Smith
HIA Zaw-Tun

Family Medicine

Chair and Professor
DG Moores

Professor

*P Jacobs

Associate Professors

NR Bell
FR Brenneis
R Brownoff
RG Chaytors
MG Donoff
EH Krikke
GR Spooner
J Triscott

Assistant Professors

AJ Cave
M Cave
*RL Fainsinger
*NL Gibson
S Hughes

PJ Klemka
DS Mackey
J O'Hara
I Steiner

Associate Clinical Professors

*MA Cherniwhan
*GE Cummings
KJ Gardener
H Hays
BR Holroyd
CJ Lord
EW Papp
*DL Shragge
*TD Sosnowski

Assistant Clinical Professors

WD Armstrong
SK Aung
AE Ausford
BH Banmann
DW Bond
*HA Borkent
*M Boulanger
*JJ Brown
PA Caffaro
SW Chambers
WE Clelland
R Cunningham
JG Gokiert
*MS Gross
HR Hindle
*SK Kelcher
TD Kolotyuk
DJ Konkin
SE Low
*AR Murray
*C Neal
*WR Patton
TF Ranieri
M Reedyk
JG Reilly
JM Robinson
WE Schneider
EP Schuster
MR Smith
RM Stepanko
*JC Taylor
JR Tilley
*AF Walker
BRB Whittaker
HA Zirk

Clinical Lecturers

*BL Abel
JR Andreiuk
DM Andriashek
FW Armstrong
JB Armstrong
MD Armstrong
MA Atrens-Sharko
H Babilitz
I Bailles
AL Bailey
T Bakshi
DJ Barer
JB Barsky
DL Belcher
JE Bell
L Bernier-Lycka
GR Blais
MM Bodmer
DW Boettger
MA Bowland
BW Boyko
TB Bray
RG Brown
WM Brown
MJ Caffaro
DB Cave
AYL Chiu
JF Chiu
IE Colliton
DJ Cook
JE Craig
RF Crowe
AC Dacunha
*JMB Davidson

BC Deane
LD Dujon
RH Dunbar
LR Edwards
*CGM Evans
SA Fedder
JA Field
SD Flanagan
TF Flanagan
N Flook
P Frieze
K Ghali
SC Ghitler-Mannes
JM Godel
INM Gray
JJ Hankinson
VM Hanlon
K Hay
BC Hayden
TL Heisler
ES Holmes
DJ Hryciuk
JR Hunter
ME Hurlburt
GW Jakeway
AJ Jarema
CG Johnston
RB Kaasa
MC Kash
PE Keith
DA Kent
DG Killick
DW Korzenowski
RT Kruhlik
GA Lamoureux
R Laughlin
DN Leung
MR Lidkea
MJ Long
CC Lopaschuk
KAH Lundgard
K Mangán
PA Marner
RA Martin
GG Mazurek
T McKeown
DP Miller
JA Mohler
W Molberg
NJ Morison
MG Moss
JD Murphy
DL Myhre
ED Ndovi
KD Neilson
AE Nett
RA Nishikawa
BL Oldale
P Palma
P Paludet
DJ Paras
J Parmar
GL Phillips
AJD Pope
*SA Poplawski
*RA Purser
R Rajput
DA Reid
WJ Reynolds
BD Ritchie
JD Ritchie
JC Routledge
PJA Ruiter
DR Ryan
M Saayman
JJ Saunders
GD Scheirer
TW Sefcik
RK Sherman
HS Sidhu
*TP Stetsko
*DF Stewart
K Towers
AW Ushko
DA Webb
RJ Wedel
DDS Welch

CN Westover
ML Wickland-Weller
HP Woytyuk
AK Yeung
P Yoon
MJ Young

Professors Emeriti
RR Cherry
GL Higgins

Faculty Service Officer
O Szafran

Adjunct Professor
L Meadows

Laboratory Medicine and Pathology

Acting Chair and Associate Professor
DC Rayner

Professors
LH Honore
LD Jewell
CC Lin
LE McGann
G Nguyen
PA Gordon
K Solez
RA Stinson
RW Yatscoff

Associate Professors
L Boshkov
G Cembrowski
RW Coupland
J Hugh
HAA Idikio
ES Johnson
RF Power
*AR Turner

Assistant Professors
FJ Bamforth
R Chibbar
C Hao
J Hugh
*XC Le
L Puttagunta
G Tyrrell

Clinical Professors
TA Kasper
PKF Petrik

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

Assistant Clinical Professors
RJ Audette
B Bannoch
H Berendt
RC Berendt
G Blakney
LGJ Boutin
G Clarke
LN Denmark
HL Gritter
J Hannon
TE Higa
T Higgins
GH Johnson
DW Kinneburgh
VL McCann
DR McLean
DM Morrison
GD Neuman
G Orlando
C Prosser
N Rayani
LJM Russell

ICF Sin
GO Wood
HWA Wu

Clinical Lecturer
GR Jones

Professors Emeriti
BW Mielke
TK Shnitka
RJ Swallow

Honorary Associate Professor
WT McGaw

Adjunct Professors
A Malcolm
M Stewart

Medical Laboratory Science

Director and Professor
RA Stinson

Assistant Professor
PL Letendre

Lecturers
S Chamberlin
M Fraser
BA Ohashi
LE Purdy
EE Rivait
MA Williams

Sessional Instructors
M Ackney
T Chelich
R Cunningham
I Fenger-Andersen
R Lane
I Simpson

Administrative Officer
JL McPhee

Medical Genetics

Chair and Professor
DW Cox

Professors
*CC Lin
*I MacDonald

Associate Professors
JS Bamforth
*D Gilchrist
H McDermid

Assistant Professors
*FJ Bamforth
DM Glerum
NJ Leonard
MJ Somerville
M Walter
R Wevrick

Medical Microbiology and Immunology

Chair and Professor
JR Smiley

Professors
GD Armstrong
*D Befus
*EA Fanning
*G Goldsand
LJ Guilbert
*PF Halloran
RT Irvin
*RPB Larke
T Mosmann
*LM Pilarski
*A Rabinowitch
JA Robertson
DE Taylor
DLJ Tyrrell
*JH Weiner

Associate Professors
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L-J Chang

JF Elliott
*SC Houston
K Kane
K Kowalewska-Grochowska
DY Kunimoto
*L Miedzinski
HL Ostergaard
MS Peppler
*JK Preiksaitis
RJ Read
*SD Shafran
L Sigler
*GD Taylor

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R Kumar
*J Robinson
*W Vaudry

Clinical Professor
RP Rennie

Associate Clinical Professors
*B Romanowski
JA Talbot

Assistant Clinical Professors
E Blondel-Hill
*L Boychuk
*I Chiu
JC Galbraith

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

Faculty Service Officers
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KK-Y Yu

Administrative Officer
M Wohlbe

Adjunct Professors
DR Bundle
L Chui
N Dovichi
MC Finlayson
MJ Robins
B Singh
GW Stemke

Medicine

Chair and Professor
PW Armstrong

Associate Professor
*DL Saunders

Assistant Clinical Professor
*SK Aung

Administrative Officers
R Mah
JC Morrison

Adjunct Professor
MGA Grace

Cardiology

Acting Director and Associate Professor
DP Humen

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

Associate Professors
JR Burton
V Dzavik
DP Humen
KM Kavanagh
D Manyari

DA Taylor
KK Teo
RT Tsuyuki
WJ Tymchak

Assistant Professors
*MR Joffres
*MJ Kantoch
SKM Kimber

Clinical Professor
PV Greenwood

Associate Clinical Professors
SS Gulamhusein
WKK Hui
Z Lakhani
MPJ Senaratne
T Talibii

Assistant Clinical Professors
LA Kasza
TG Muzyka

Clinical Lecturers
*NS Brass
DM Hammer
M Hoskinson
RG Williams

Professors Emeriti
RS Fraser
RE Rossall

Adjunct Professor
TJ Montague

Clinical Hematology and Medical Oncology

Director and Professor
AR Turner

Professors
*JJ Akabutu
*AR Belch
*ED Bruera
MJ Mant
*TA McPherson

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

Assistant Professors
*L Boshkov
*MC Palmer
DBC Ritchie

Clinical Professors
*PA Gordon
*JM Turc

Assistant Clinical Professor
*JL Hannon

Professor Emeritus
*RN MacDonald

Dermatology and Cutaneous Sciences

Director and Associate Professor
A Krol

Associate Professor
AN Lin

Assistant Professor
TG Salopek

Clinical Professors
J Brown
EH Schloss
OS Talpash

Associate Clinical Professors
DW Groot
NA Jampolsky
JY Liao

Assistant Clinical Professors
VJ Kulak
GJ Lauzon

BAS Lycka
MB Rogers
DM Sawyer

Clinical Lecturer
GE Searles

Adjunct Professor
K Jimbow

Endocrinology and Metabolism

Director and Professor
J Ginsberg

Professors
*DN Brindley
*DC Cumming
*S Harvey
*SE Jacobs
DW Morrish
A Rabinovitch
EA Ryan
*JZ Scott
J Vance

Associate Professors
CLY Chik
*WA McBlain
EL Toth

Assistant Professors
GA Francis
RZ Lewanczuk

Professors Emeriti
PM Crockford
RN Eidem
DM Fawcett
GD Molnar

Adjunct Professors
*DJ Pehowich
S Yokoyama

Gastroenterology

Director and Professor
RN Fedorak

Professors
*MT Clandinin
ABR Thomson

Associate Professors
VG Bain
*MI McBurney
BR Yacyshyn

Assistant Professors
*CJ Field
M Ma
DC Sadowski

Clinical Professors
RJ Bailey
RW Sherbaniuk
CM Switzer
RH Wensel

Assistant Clinical Professors
RD Cherry
JP Ferguson
LM Gramlich
EAG Lalor
*MS Millan
DN Todoruk

General Internal Medicine

Director and Associate Professor
NE Brown

Professor
CH Harley

Associate Professors
DM Gilchrist
PG Hamilton
*AAC Yeung

Associate Professors

A Kaburda
I Kuc
DJ Pehowich
E Peters
JN Pochynok
HK Tan

Assistant Professor

E Edgington

Clinical Professors

DPK Cheung
M Grace
RD Haryett
CE Hawrith
BL Kuzyk
RP Mullen
JM Plecash
HL Samuels
EW Tunis
DC Yu

Clinical Associate Professors

N Chalk
LC Chan
A Eastwood
CK Fialko-Eshenko
B Gitzel
D Gotaas
KL Hesse
BG Kindrachuk
E Krause
R Labahn
VP Lee
BA Linke
DJ MacDougall
C MacDonald
WR Mather
E McIntyre
ME Mickleborough
LR Moore
B Nebbe
SK Patterson
PL Pierce
L Powers
J Ritchie
EC Robinson
P Schulte
JA Scott
TR Stevenson
MT Taciuk
RL Tegart
M Wilson
KW Wong
J Woronuk
CC Yu

Clinical Assistant Professors

DH Bedard
BS Bennett
EA Burgess
H Campbell
CG Caruk
S Compton
R Cox
J Croutze
RRA Croutze
J Doberstein
W Dobrovolsky
R Eamer
DBC Hayashi
M Howell
E Jang
G Jansen
R Kreutz
E Kucey
EWL Kwan
C Layton
S Lockwood
J Lockau
K Lung
J Mergaert
L Mowat
BR Neumann
WD Preshing
W Primrose
CJ Revell
CG Rouse

W Smith
L Sterns
R Titiryn
E Urrutia
WG Wesner
AO Wong
P Wooding
PKC Yeung
HC Yu
GB Zenith

Clinical Instructors

S Abraham
K Bapoo-Mohamed
L Best
T Bone
J Borrelli
AH Brouwer
G Burke
D Chow
R Easton
D Eliuk
P Gainer
L Goerz
G Grykuliak
KS Habib
D Hall

AKK Hoh
KP Isbister
GH Janke
N Jinnah
L Julé
M Kaiser
A Klassen
SSS Lau
T Lau
AF Leboldus
D Lunardon
J Mack
W MacKinnon
I Mah
S Mitchell
C Neufeld
H Nguyen
J Paphangkorakit
C Patrickson
M Pokroy
M Prosperi-Porta
C Rees
R Schafers
B Schneider
U Szkudlarek
A Tam
J Thomas
C Tuazon
M Webber
GP Wendell
J White
EM Whitney
D Wong

Lecturer
V Stanic

Professors Emeriti

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

Paediatrics**Acting Chair and Professor**

F Harley

Professors

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

Associate Professors

C Baxter
RM Couch
JE Ellsworth
KJ Goulden
*M Michalak
LJ Smith
DW Spady
W Vaudry

Assistant Professors

D Andrews
B Couch
S Gilmour
M Gow-Shankar
M Kantoch
S Lappa
R Schulz
BD Sinclair
V Yiu

Clinical Professors

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

Associate Clinical Professors

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

Assistant Clinical Professors

K Anderson
L Baydala
D Berry
M Bhambhani
I Buka
LM Casey
R Chen
AM Darwish
LJ Dibden
NA Dower
W Doyle-Chan
EW Harris
A Janicka
RP Lemke
JE Lopatka
BA Malinowski
LF McGonigle
AN Mian
*JC Mullen
GA Ortega
H Osiovich

VM Osundwa
S Parsons
E Phillippos
ML Ramji
D Roseman
AI Singh
G Sukhrani
WA Szymanski
J Teoh
JT Woods

Professors Emeriti

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

Administrative Officer

G Langer

Adjunct Professors

K Horne
RA Lang
WM Wenman

Haematology and Oncology**Director and Associate Professor**

P Grundy

Professor

JJ Akabutu

Assistant Professors

*SJ Desai
PE Grundy
BA Wilson

Infectious Diseases**Director and Assistant Professor**

W Vaudry

Professor

RPB Larke

Assistant Professor

JL Robinson

Medical Genetics**Chair**

DW Cox

Professor

*CC Lin

Associate Professor

S Bamforth

Assistant Professors

*DM Gilchrist
NJ Leonard

Clinical Professor

*WG Pearce

Assistant Clinical Professor

*FJ Bamforth

Neonatology**Director and Associate Clinical Professor**

P Byrne

Professors

PC Etches
JE Van Aerde

Associate Professor

A Peliowski

Assistant Professor

EZ Phillippos

Paediatric Cardiology**Director and Associate Professor**

JD Dyck

Professors

RL Collins-Nakai
PM Olley

Associate Professor

JY Coe

Assistant Professors

M Kantoch
MA Robertson

Associate Clinical Professor

*PA Penkoske

Professor Emeritus

NF Duncan

Paediatric Intensive Care**Director and Associate Clinical Professor**

A Conradi

Associate Clinical Professor

A deCaen

Assistant Clinical Professors

A Joffe
S Parsons

Pharmacology**Acting Chair and Professor**

AS Clanachan

Professors

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

Associate Professors

WF Colmers
WP Gati
AAC Yeung

Assistant Professors

AN Bateson
BA Bielkiewicz-Vollrath
*R Schulz
AMW Tse
FWY Tse

Professors Emeriti

GB Frank
ARP Paterson

Faculty Service Officer

EG Hunter

Administrative Officer

JC Deuel

Physiology**Chair and Professor**

EJ Sanders

Professors

CI Cheeseman
S Harvey
AKC Ho
SE Jacobs
*LW Kline
*DM Olson
KG Pearson
A Prochazka
RB Stein
JD Young

Associate Professors

SC Barton
CG Benishin
E Karpinski

Assistant Professors

JR Casey
*ST Davidge
*M Duszyk

Professors Emeriti

KJ Hutchison
PKT Pang
M Schachter

Administrative Officer

OM Findlay

Adjunct Professor

*RL Jones

Psychiatry**Chair and Professor**

RC Bland

Honorary Professor

EI Picard

Professors

GB Baker
AJ Greenshaw

Associate Professors

JH Brooks
GG Griener
GS Hnatko
J Metelitsa
SC Newman
PH Silverstone
BK Sinha

Assistant Professors

NJ Coupland
J Fang
J LeMellédo
PG Tibbo

Clinical Professors

M Blackman
CA Blashko
P Flor-Henry
A Gordon
S Levin
JS Rosie
PM Segal
PF Steinberg
BF Turner
LB Warneke
HM Wojcicki

Associate Clinical Professors

LM Adams
HM Barker
JE Beach
AB Bremness
AM Carroll
KM Collinson
PE Copus
NP Costigan
RJ Dyck
J Eustace
RF Fairbairn
KD Gendemann
DW Grover
DR Guinhawa
CA Hapchyn
RE Hibbard
AS Joyce
L Kagan
JL Kolada
E Lobo
M McCallum
KF McKenna
P Mills
BR Mirtle
J O'Kelly
JW Osinchuk
L Pawluk
HM Piktel
BS Sanderman
TJ Snyder
B Sowa
PJ White
CM Yalthro

Assistant Professors

TA Churchill
G Korbutt

Adjunct Professor

*PG Scott

Urological Surgery**Director and Associate**

Clinical Professor
MP Chetner

Professors

*DJ Griffiths
*JW Low

Assistant Professors

RB Moore
GT Todd

Associate Clinical Professors

DR Mador
JB Metcalfe

Assistant Clinical Professors

RP Abele
B Bochinski
EP Estey
LW Mix
SM Robinson

Clinical Lecturers

MJ Allard

Professors Emeriti

WH Lakey
JO Metcalfe

Faculty Divisions**Bioethics****Director and Professor**

JB Dossetor

Professors

*V Bergum
*P Byrne
*SC Haske
*JM Howell
*CMF Kjellstrand
*TW Noseworthy
*GB Robertson
*JC Ross-Kerr
*D Schiff
*E Toth

Associate Professors

*G Griener
*JC Mackenzie

Assistant Professor

*DM Wilson

Adjunct Professors

N Bettowski
L Cook
RC Fraser
S Heschuk
NJ Inions
P Marck
M Shone
DL Smith

Professor Emeritus

JB Dossetor (Chair in Bioethics)

Continuing Medical Education**Director and Professor**

P Davis

Assistant Directors

SE Low
KJ Skeith

Critical Care Medicine**Director and Associate**

Clinical Professor
RG Johnston

Professors

*SM Hamilton
*I Mayers
*T Noseworthy

Associate Professors

*P Byrne
*PC Etches
*NRT Gibney
*A Peliowski
*P Penkoske
*EE Tredgett

Assistant Professors

*A deCaen
*MK Heule
*M vanWijngaarden

Associate Clinical Professors

*A Conradi
*DL Modry

Assistant Clinical Professors

*W Chin
*CR Guenther
*S Marcushamer
*M Meier
*J Mullen
*W Murtha
*DE Stollery

Clinical Lecturers

*D Callahan
*D Matheson

Emergency Medicine**Director and Associate**

Professor
BR Holroyd

Associate Clinical Professors

MA Cherniwchan
GE Cummings
DL Shragge
TD Sosnowski

Assistant Clinical Professors

D Bond
HA Borkent
MJ Boulanger
RS Brooks
JJ Brown
T Compagna
D Mackey
DM McElgunn
*LF McGonigle
C Neal
WR Patton
DC Perry
IP Steiner
JC Taylor
AF Walker

Adjunct Associate Clinical

Professor
I Vicas

Clinical Lecturers

BL Abel
JJ Brown
ER Buntin
CG Campbell
JMB Davidson
CGM Evans
GAJ Groot
DW Lemke
CW Miles
AR Murray
DW Neilson
D Nixon
SA Poplawski
RA Purser
N Schiebel
TP Stetsko
DF Stewart
PW Yoon

**Health Sciences
Laboratory Animal
Services****Director and Professor**

DH Neil

Faculty Service Officers

TF Bayans
PN Nation

Neuroscience**Director and Professor**

*WF Dryden

Professors

*BJ Andrews
*GB Baker
*MH Brooke
*RB Campenot
*SMJ Dunn
*T Gordon
*MM Hodge
*S Kumar
*IL Martin
*KG Pearson
*RE Peter
*WD Pierce
*A Prochazka
*PA Smith
*RB Stein
*RC Urtaşun
*D Wahlsten

Associate Professors

*WF Colmers
*JJ Goldberg
*AJ Greenshaw
*JH Jhamandas
*TL Krukoff
*NC Milos

Assistant Professors

*AN Bateson
*D Bennett
*D Dong-Wylie
*JJ Greer
*A Kingstone
*A Kostov
*M Parent
*D Treit
*A Tse
*F Tse
*J Yang

Clinical Professor

*JDR Miller

Associate Clinical Professor

*KC Petruk

Adjunct Professors

*CHM Beck
*AR Dobbs
*I Kiss
*BK Mitchell
*AH Putnam Rochet

**Physical Medicine
and Rehabilitation
Medicine****Director and Associate**

Professor
DJ Carroll

Professor

RM Feldman

Associate Professors

LA Bellamy
RS Burnham

Assistant Professor

DE McLean

Associate Clinical Professors

JA Nicas
LCE Trachsel
*M Watt

Assistant Clinical Professors

LE Gross
JB Guthrie
JM Nagy
E Veszpremi

Adjunct Professors

*BJ Andrews
*RB Stein

**Studies in Medical
Education/Media
Services****Director and Professor**

*DA Cook

Associate Director and

Professor
*SL Aaron

Educational Associates

*FR Brenneis (Family Medicine)
*DN Brindley (Biochemistry)
*NE Brown (Medicine)
*VA Capstick (Obstetrics and Gynecology)
*CI Cheeseman (Assistant Dean, Admissions, Physiology)
*J Crockett (Medicine)
*P Davis (Associate Dean, Continuing Education, Medicine—Rheumatology)
*MG Donoff (Family Medicine)
*JE Ellsworth (Paediatrics)

*BW Fisher (Medicine—General Internal Medicine)

*G Goldsand (Associate Dean—PGME—Infectious Diseases)

*C Harley (Medicine)

*N Kassam (Medicine)

*PJ Klema (Family Medicine)

*ME Palmer (Assistant Dean—Clinical Education Oncology)

*W Patton (Emergency Medicine)

*DC Raynor (Laboratory Medicine and Pathology)

*B Roed (University Teaching Services)

*DW Spady (Paediatrics)

*BR Stevenson (Assistant Dean—Student Affairs, Cell Biology and Anatomy)

*AR Turner (Medicine—Clinical Hematology)

*DLJ Tyrrell (Dean of Medicine, Medical Microbiology and Immunology)

*AH Walji (Associate Dean—UGME—Cell Biology and Anatomy)

Research Associates

*D Blackmore (Medicine Council of Canada)

*R Muzyka (Technological Consultant)

*GL Warnock (Surgery)

*G Zeschuk (Technological Consultant)

Associate Professor

EN Skakun

Professor Emeritus

*TO Maguire

Surgical Medical

Research Institute

Director and Professor

*RV Rajotte

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

R Fraser, PhD

Representatives

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

Registrar of the University

BJ Silzer, MEd

92 General Information

The Faculty of Medicine of the University of Alberta was established in 1913 and until 1922 conducted a three-year undergraduate medical program in the basic medical sciences.

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

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

In 1996, the Faculty of Dentistry was merged with the Faculty of Medicine to become the Faculty of Medicine and Oral Health Sciences.

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 Oral Health Sciences conducts the following programs:

Medical Programs

- (1) A fully accredited four-year program leading to the degree of Doctor of Medicine. At least two pre-medical years at university are required before admission to this program.
- (2) A program whereby students in the MD program who fulfil specified requirements in research may receive the degree of Doctor of Medicine "with Honors in Research."
- (3) A four-year program leading to the degree of Bachelor of Science in Medical Laboratory Science, which may be entered after a preprofessional year.
- (4) A program whereby students in Medical Laboratory Science who fulfil specified requirements in research may receive the degree of Bachelor of Science in Medical Laboratory Science "with Honors in Research."
- (5) A program whereby students in the MD Program who fulfil specified requirements may be awarded the Bachelor of Medical Science degree at the conclusion of their second year in the MD program.
- (6) At the graduate level, programs leading to the degree of Master of Science or Doctor of Philosophy. Also programs leading to the degree of Master of Public Health (formerly, Master of Health Service Administration) or the Diploma in Health Service Administration.
- (7) Programs leading to accreditation by the College of Family Physicians of Canada.
- (8) Programs leading to eligibility for specialist qualification, in all clinical specialties, by the Royal College of Physicians and Surgeons of Canada are offered in cooperation with affiliated hospitals.
- (9) An extensive program of continuing medical education for physicians practising in northern Alberta.

See §94 for details of programs of study.

Dental Programs

- (1) A four-year program leading to the degree of Doctor of Dental Surgery (DDS). At least two pre-dental years at university are required before admission to this program.
- (2) A BSc degree that students registered in the DDS program may apply for after successfully completing the first two years of the DDS program.
- (3) A two-year program leading to the Diploma in Dental Hygiene. A preprofessional year is required before admission to this program.
- (4) MSc and PhD degrees in Medical Sciences (Oral Health Sciences).
- (5) An MSc Degree and Certificate in Orthodontics.
- (6) Continuing Education courses are offered by the Department of Oral Health Sciences from time to time to provide continuing education for the dental profession. A program outlining dates, course descriptions, participation, and length is prepared annually and distributed to members of the profession.

92.1 Department of Oral Health Sciences Objectives

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

92.2 Affiliated Hospitals and Institutions

92.2.1 Affiliated Hospitals

The Faculty of Medicine and Oral Health Sciences, 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 and the Medical Sciences and Clinical Sciences Buildings.

92.2.2 Family Medicine Rural Teaching Sites

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

92.2.3 Northern Health Services Program

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

92.2.4 University of Alberta Family Medicine Centres

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

92.2.5 Alberta Primary Care Research Unit—University of Alberta Branch

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

92.2.6 University of Alberta Surgical-Medical Research Institute

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

92.3 Registration and Licensing

92.3.1 DDS Degree

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

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

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

Alberta

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

British Columbia

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

Manitoba

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

New Brunswick

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

Newfoundland

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

Nova Scotia

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

Ontario

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

Prince Edward Island

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

Quebec

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

Saskatchewan

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

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

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

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

92.3.2 Dental Hygiene Diploma

A diploma from the dental hygiene program does not, in itself, confer the right to practise. A dental hygienist desiring to practise dental hygiene in Canada should consult the appropriate provincial licencing body as listed below:

Alberta

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

British Columbia

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

Manitoba

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

New Brunswick

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

Newfoundland

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

Nova Scotia

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

Ontario

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

Prince Edward Island

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

Quebec

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

Saskatchewan

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

92.3.3 Registration to Practise

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

92.4 Finance**92.4.1 DDS Degree****Estimated Budget for Dental Students**

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

	Year 1	Year 2
Tuition and Fees	\$5,485	\$5,485
Books	1,200	1,100
Dental Kits	8,000	6,600
Dental Students Association	100	100
	Year 3	Year 4
Tuition and Fees	\$5,485	\$3,885
Books	400	200
Dental Kits (Instruments)	900	200
Dental Students Association	100	100
NBDE (American) Examinations	—	70
NDEB (Canadian) Examinations	—	1,665

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

	Year 1	Year 2
Tuition and Fees	\$4,395	\$2,795
Books	900	600
Dental Hygiene Kits	4,400	2,200
Membership Fees	100	100

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

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

92.4.3 MD Degree

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

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

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

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

92.5 Medical Society Memberships

The Medical Students' Association 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 of the Phase I, II, and III programs; 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 Phase III student who has demonstrated exceptional clinical aptitudes in Paediatrics. Some projects sponsored by the MSA and run by medical students are the University of Alberta branch of Shinerama, a program dedicated to raising money for Cystic Fibrosis research; the Courtyard Concert Series, a noon-hour classical concert series (featuring a grand piano donated by the MSA) for University Hospital patients; a medical student choir; and *IATROS*, a student medical journal dedicated to publishing student articles and increasing communication between current students and alumni. Many social activities and sports events are also planned through the year.

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

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

93 Admission and Academic Regulations**93.1 Admission**

See §§13 and 14 for general admission requirements to the University. See §15.9 for specific admission information for the DDS, Dental Hygiene, MD, and BSc in Medical Laboratory Science programs.

93.1.1 Combined Program for the Degrees of MD and PhD

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

Students in the first year of the MD program may apply to the Combined Program. If acceptable to the appropriate department, to the Faculty of Medicine and Oral Health Sciences, and to the Faculty of Graduate Studies and Research, the student is admitted to the PhD program. Normally, on completion of two years of the MD program, the student registers in the PhD program. The time needed to complete the requirements for the PhD depends on the applicant's previous training and the nature of the research. On completion of the PhD program, the student reenters the Faculty of Medicine and Oral Health Sciences 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 Oral Health Sciences, 2J2.11 Walter C Mackenzie Health Sciences Centre.

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.

93.2 Academic Standing and Graduation

93.2.1 DDS Degree

Important note: The DDS and MD programs have been revised effective September 1998. The programs listed in this edition of the University Calendar apply only to those students admitted for September 1998. Continuing students in these programs are directed by the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Oral Health Sciences for further information.

(1) Students entering the DDS program may be granted credits for courses completed preprofessionally that are deemed by the Department Chair, in consultation with the course coordinator and the Chair of the Academic Standing Committee, to be demonstrably equivalent to courses for which credit is being sought. Credit will be considered only when the student achieves a grade of 6.0 or more in the qualifying course(s). Students carrying a course load reduced by more than ★10 from the normal Winter Session course load are not eligible for awards in that session. In the first and second years of the Dentistry Program, all course requirements in the year must be met to be eligible for promotion. A third-year student may, at the discretion of Council, be promoted with a course deficiency when all of the following apply:

- The deficiency is in a single clinical course.
- There is no provision for remediation and reevaluation in the course.
- The student's overall GPA for the year is 6.0 or better.
A student promoted with a deficiency must meet all normal course requirements in the fourth year of the Program to be eligible for graduation.

(2) A minimum GPA of 5.0 must be achieved to meet promotion requirements. Students must pass both the practical and the theoretical examinations of any course having a practical and theoretical component.

(3) Course grades of 3.0, 2.0, and 1.0 are failing grades. A grade of 4.0 is a conditional pass and permits a student to meet promotion/graduation requirements when

- the student's overall GPA is 5.0 or better;
 - the combined course weight in which grades of 4.0 or less are achieved does not exceed 20% of the total course weight in the program year; and
 - satisfactory course standing is approved by Department Council. Notwithstanding (b) above, Department Council may deny a student promotion/graduation when grades of 4.0 are achieved in critical subjects and/or when reexaminations are not available.
- d. When these conditions are not met, credit is denied for courses in which a grade of 4.0 has been received.

(4) **Reexaminations:** See §23.5.5.

(5) A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Academic Standing Committee acting on the advice of the Discipline concerned. A minimum grade of 6.0 is required for course credit. A failed student in the final year of the program may be designated a Special Category repeating student. Further information regarding the Special Category repeating student is available from the Department office. Students who carry a reduced academic load exceeding ★10 from the normal Winter Session course load are not eligible for awards in that session.

(6) Students are permitted to repeat first-year Dentistry only in circumstances determined exceptional by the Department Council. Normally, a first-year Dentistry student permitted to repeat the failed year must wait out one year before readmission to the program. Repeating students are considered for awards and, except repeating Special Category fourth-year Dentistry students, are given a class standing.

(7) A student permitted to repeat a failed year, who does not achieve a GPA of 5.0, must cancel registration in the DDS program.

(8) A Special Category repeating fourth-year Dentistry student

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

- has clinical deficiencies in no more than two clinical courses and has been advised that the deficiency could be corrected within a four-month period of instruction; and
- has successfully completed all written examinations in the DDS program.

(9) **Voluntary Withdrawal:** A student wanting to withdraw registration from the DDS program temporarily may apply in writing to the Associate Dean of Oral Health Sciences, stating the reasons for withdrawal and the intended period of withdrawal. Readmission to the DDS program following voluntary withdrawal is based on the following:

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

(10) **Faculty Advisor:** At the discretion of the Department Council, 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 Department Council.

(11) All students registered in the Dentistry program are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association. This registration permits the practice of dentistry within the confines of the formal dental curriculum.

(12) **Hepatitis B:** Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre. Applicants who test positive will not be admitted to the DDS program (see §15.9.3).

All students accepted into the DDS program who test negative to Hepatitis B surface antigen after vaccination will be tested again for Hepatitis B surface antigen at the end of second year. Those who test positive will be further tested for "e" antigen and Hepatitis B viral DNA. Those who test positive for one or both may be required to withdraw from the program, a decision which can be appealed to the Practice Review Board (§87, GFC Policy Manual).

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

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

93.2.2 Dental Hygiene Diploma

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

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

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

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

(4) **Reexaminations:** See §23.5.5.

(5) Students are permitted to repeat first-year Dental Hygiene only in exceptional cases as determined by the Department Council. A first-year Dental Hygiene student permitted to repeat the failed year must wait out

one year before continuing in the program. Repeating students are considered for awards.

- (6) Students seeking readmission to the Dental Hygiene program have their application for readmission considered in competition with all other applicants by the Admissions Committee.
- (7) A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Academic Standing Committee acting on the advice of the Department concerned. A grade of at least 6.0 is required for Dental Hygiene courses. A failed student in the final year of the program may be designated a Special Category repeating student and may complete graduation requirements at the completion of the Intersession term. Students who carry a reduced academic load exceeding ★6 from the normal Winter Session course load are not eligible for awards in that session.
- (8) A Special Category repeating second-year dental hygiene student
 - a. has achieved a minimum GPA of 6.0 in the second-year program;
 - b. has clinical deficiencies in no more than two clinical courses and is advised that the deficiency could be corrected within a four-month period of instruction; and
 - c. has successfully completed all written examinations in the Dental Hygiene program.
- (9) Faculty Advisor: At the discretion of the Academic Standing Committee, a faculty advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and the role of the faculty advisor is determined by the Council.
- (10) Testing for Hepatitis B Prior to Admission: 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. Those found positive for one or both will not be considered for admission to Dental Hygiene. Any decision of any other body within the Faculty or the University.

For those applicants who test negative for Hepatitis B surface antigen and are then accepted into the Dental Hygiene programs Hepatitis B vaccination will be required. An exception will be made for those for whom it is medically contraindicated or 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 are converted. 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 at their potential risk status during training and future practice.

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

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

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

93.2.3 MD Program

Important note: The DDS and MD programs have been revised effective September 1998. The programs listed in this edition of the University Calendar apply only to those students admitted for September 1998. Continuing students in these programs are directed by the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Oral Health Sciences for further information. However, for the rules governing promotions and academic standings given below, the terms “Years 1, 2, 3, or 4” should be considered as equivalents to “Phases I, II, IIIA or IIIB”.

The four-year 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 an interdepartmental coordinating committee (see §94.3). Final decisions about

academic standing and promotion to the next year are made by the Faculty Academic Standings and Promotions Committee.

- (1) The Council of the Faculty of Medicine and Oral Health Sciences 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.
- (2) Students are advised at the beginning of each course, rotation, elective, selective 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.
- (3) Students are awarded a grade point average (GPA) at the conclusion of Years 1, 2, 3 and 4 of the program based on their performance in course examinations held during the year. In addition, students are assessed based on a final comprehensive at the end of Year 4. Furthermore, at the end of the MD program at the end of Year 4, a cumulative Year 3 GPA is calculated which combines the marks from the Years 3 and 4 (student internship program) and the Year 4 comprehensive exam.

Students with a GPA of less than 5.0 at the end of any one of Years 1, 2, 3 or 4 must withdraw from the program.

(4) Reexaminations

- a. Reexaminations of Courses: Students with a GPA of less than 5.0 are not eligible for reexaminations. If a student has a GPA greater than or equal to 5.0 but has failed two or less courses with course weights less than or equal to 20% of the total course weights for the year, the student is allowed reexamination privileges in those courses. Their reexamination mark will replace the original final exam mark (as does a deferred mark). It is not possible to make a ruling regarding reexamination until all grades for a term are recorded.
- b. Reexamination of Comprehensive Examinations: A student awarded reexamination privileges of the comprehensive examination must obtain a revised GPA of at least 5.5 before being promoted.
- c. If a reexamination is approved, a student may need to satisfactorily complete a remedial program before being permitted to take the reexamination.
- d. A student neglecting to take a reexamination within the prescribed time defined in §93.3.3 is not allowed to continue in the program.
- e. A student repeating a year is not allowed reexamination privileges.
- f. The Faculty Office will contact the student regarding reexamination privileges and fees. The usual time for reexaminations is the end of July. All other regulations pertaining to reexaminations are as per University policy. See §23.5.5 for further information.
- g. Requirement for Remedial Work
 - i) Students must satisfactorily complete theoretical, laboratory and clinical components of all courses within the MD program to obtain credit for those courses. Students failing to satisfactorily complete any of the above components must repeat the courses in question or do remedials in those courses. Students absent for more than two days in any course in which attendance is compulsory are not given credit for that course and are asked to repeat the course.
 - ii) A student is assigned a failing grade and must withdraw from the MD program before completing a course, rotation, or year if the student is performing at a level whereby patient safety is being jeopardized, as determined by the rotation coordinator and/or the Associate Dean, Undergraduate Medical Education. Such a student is not readmitted to the MD program except at the sole discretion of the Dean or the Associate Dean, Undergraduate Medical Education. Appeals may be made to the GFC Practice Review Board (see §87 GFC Policy Manual).

- (5) No student may proceed to any subsequent year of the medical program unless all the work of the previous year is successfully completed.
- (6) No student may repeat the first year of the program except in special circumstances approved by the Faculty.
- (7) A student permitted to repeat a failed year (1 or 2) who does not obtain a satisfactory record (no failing courses) in the first term of that year must withdraw from the MD program.
- (8) A student repeating a year must withdraw from the MD program unless a GPA of at least 5.5 is obtained on the work of the repeated year and a passing grade achieved in all courses in that year.

- (9) A student who fails to meet promotional standards twice at any time in the MD program must withdraw and is not readmitted to the MD program except at the sole discretion of the Dean or the Associate Dean, Undergraduate Medical Education.
- (10) For students in Medicine, where there is a greater potential for transmission of bloodborne pathogens from students to patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:

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

For students who test positive for Hepatitis B surface antigen their "e" antigen (HbeAg) status and the presence of Hepatitis B viral DNA will be determined. If they are found to be positive for the "e" antigen or the viral DNA they will be counselled as to their risk of infecting patients and they will be required to follow a modified clinical training program.

The decision of the Faculty as to the modifications to the training program may be appealed to the Practice Review Board (§87, GFC Policy Manual).

Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Medicine. Those found to be positive will be counselled as to how to minimize their risk of transmission to patients and how to manage their own health. Testing of Medical students may be repeated at the end of second year prior to their starting clinical placements.

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

93.2.4 BSc Program in Medical Laboratory Science

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

Phase I

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

Phase II

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

Competence in communication, comprehension, and technical skills of each student is assessed by written evaluations in each discipline of each Medical Laboratory Science course. At least five evaluations are completed for each course by practising technologists/scientists. One of these evaluations is a composite completed at the end of the course and is worth 50% of the final technical assessment. The others are weighted equally and are worth 50%. Students must pass the technical component of each course with a mark of 50% or higher. Students who do not

achieve this in any one course must satisfactorily complete a remedial period of training in that course, or may be required to withdraw. Students are allowed remedial training in only one course. Students who have entered Phase II on probation and who fail to achieve a mark of 50% in the technical component of any one course are not normally allowed remedial training and must withdraw.

- (2) The quota for Phase I students is 26.
- (3) **Reexamination:** See §23.5.5
- (4) A student permitted to repeat a course or an entire phase must withdraw unless a minimum average grade of 6.0 is obtained on the repeated work.
- (5) Any student whose technical work or academic performance is deemed unsatisfactory may be required to withdraw from the Faculty.
- (6) For students in Medical Laboratory Science, where there is a greater potential for transmission of bloodborne pathogens from students to patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:

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

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

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

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

93.3 Appeals and Grievances

Students may appeal academic standing decisions in the Faculty. There are informal ways to appeal as well as strict deadlines for submission of formal appeals. Students may obtain the Faculty's complete appeal regulations from the Undergraduate Medical Education office, 2-45 Medical Sciences Building. Under certain conditions, an unsuccessful appeal in the Faculty may be carried to the General Faculties Council Academic Appeals Committee. See §23.8.

Students who have a grievance about a grade in an individual course taught in this Faculty should consult §23.8, which describes the informal process for addressing concerns about grades. There is also a formal process in the Faculty for appealing a grade. This process, including deadlines for submission of an appeal, is set out in the Faculty's academic appeal regulations, available in the Faculty's Undergraduate Medical Education office, 2-45 Medical Sciences Building.

93.4 Professional Standards for Students in the Faculty of Medicine and Oral Health Sciences

The University Code of Student Behaviour (§26) describes a range of non-academic and academic offences deemed unacceptable and for which a student may be penalized. Additionally, the Faculty of Medicine and Oral Health Sciences has filed with the Campus Law Review Committee a list of offences representing gross professional misconduct (see §26.1.4).

94 Programs of Study

94.1 DDS Degree

94.1.1 General Information

Important note: The DDS and MD programs have been revised effective September 1998. The programs listed in this edition of the University Calendar apply only to those students admitted for September 1998. Continuing students in these program are directed by the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Oral Health Sciences for further information.

Curriculum

The Department of Oral Health Sciences offers a four-year (11-term) program leading to the degree of Doctor of Dental Surgery (DDS), following satisfactory completion (after senior matriculation) of at least two 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 year of the dental program is combined with the MD program. Commencing in September 1999, the second year will also be combined with the MD program. The curriculum is taught in blocks and covers areas as Infection, Immunity and Inflammation, Endocrine System, Cardiovascular, Pulmonary and Renal Systems, Gastroenterology and Nutrition, Reproductive Medicine and Urology, Musculoskeletal System, Neurosciences, Oncology. These subjects are augmented by dental courses offered by the respective divisions. The lectures, laboratories, seminars, and clinics offered by the Department of Oral Health Sciences relate and integrate these fundamental disciplines with the knowledge, skills, judgment, and performance required of dental practitioners.

In addition to bedside and operating instruction in medicine and surgery, senior students are assigned to the Dental Clinic and the Department of Dentistry, University of Alberta Hospital. An experience in the Satellite Dental Clinic and the external hospitals is required in the final year of the program. Thus students are able to relate their field of health service to the science and art of preventing, curing, or alleviating disease in general.

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

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

Library

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

94.1.2 Course Requirements

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

Effective 1998/99

Year 1

DMED 511	★3	4 weeks
DMED 512	★6	7 weeks
DMED 513	★6	7 weeks
DMED 514	★11	13 weeks
DDS 510	★6	8 hr/wk
DDS 511	★1.5	15-0-21
DDS 512	★3	25-0-50
DDS 514	★2	0-0-60
DDS 515	★1	15-0-0
DDS 516	★2.5	15-0-45
DDS 517	★7	40-0-135
DDS 518	★4	54-0-6
DDS 519	★1	15-0-0

Effective 1999/2000

Year 2

DMED 521	★5	6 weeks
DMED 524	★9	11 weeks
DMED 525	★3	4 weeks
DDS 520	★6	8 hr/wk
DDS 521	★2	30-0-0
DDS 522	★2	7 weeks
DDS 523	★2	7 weeks
DDS 525	★1	10-0-0
DDS 526	★1.5	6-27c-0
DDS 527	★2.5	15-0-45
DDS 528	★1	15-0-0
DDS 530	★2	0-60c-0
DDS 531	★5	30-0-90
DDS 532	★4	60-0-0
DDS 533	★2	30-0-0
DDS 534	★1	15-0-0
DDS 535	★2.5	15-45c-0
DDS 536	★5	30-45c-45
DDS 537	★2	15-24c-0
DDS 538	★2	15-0-25

Effective 2000/2001

Year 3

DDS 540	★11	0-350c-0
DDS 541	★1	15-0-0
DDS 542	★1	15-0-0
DDS 544	★2	15-27c-0
DDS 546	★3	23-60c-0
DDS 547	★1	15-0-0
DDS 548	★6	15-150c-0
DDS 549	★3	25-0-45
DDS 550	★3	30-30c-0
DDS 551	★4.5	15-54c-45
DDS 552	★2	0-0-60
DDS 553	★5	30-90c-0
DDS 554	★4.5	15-105c-0
DDS 555	★1	15-0-0
DDS 556	★7	30-150c-0
DDS 557	★7	30-150c-0
DDS 558	★5	0-12c-0

Effective 2001/2002

Year 4

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

94.2 Dental Hygiene Diploma

94.2.1 General Information

The Department of Oral Health Sciences offers a Diploma in Dental Hygiene. The Dental Hygiene Program enables students to acquire knowledge and develop skills and attitudes so that they may assume positions of responsibility in private dental practice or community health care settings.

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

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

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

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

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

94.2.2 Course Requirements

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

Year 1

BIOCH 220	★3	39-0-0
D HYG 200	★3.5	43-0-4
D HYG 211	★5.5	84-0-0
D HYG 212	★6	0-0-180
D HYG 213	★3	0-90c-0
D HYG 214	★7.5	6-210c-0
D HYG 215	★2	28-0-0
D HYG 216	★1	14-0-0
D HYG 217	★1	20-0-0
D HYG 220	★3	28-0-26
D HYG 222	★2	28-6-0
D HYG 230	★1.5	20-6-0
D HYG 231	★1	14-0-0
D HYG 232	★1	14-0-0
D HYG 240	★2	28-0-6
D HYG 241	★1	0-12c-0
DENT 300	★0	0-8s-0
MMI 422	★2	28-0-0
OBIOL 202	★4	60-0-0
PHYSL 252	★6	78-0-0

Year 2

D HYG 313	★16	0-471-0
D HYG 316	★2	28-0-0
D HYG 317	★2	28-0-0
D HYG 320	★2	23-0-16
D HYG 321	★2	13-39c-0
D HYG 322	★2	28-0-9
D HYG 325	★0.5	0-12c-0
D HYG 326	★2	28-6-0
D HYG 329	★2.5	0-75c-0
D HYG 340	★2	0-48-0
D HYG 345	★1	14-0-0
D HYG 386	★1	15-0-0
D HYG 387	★0.5	0-0-15
INT D 410	★3	0-39s-0
OBIOL 300	★2	28-0-0
OBIOL 302	★3	45-0-0
OBIOL 305	★3	42-0-0

94.3 MD Degree

94.3.1 General Information

Important note: The MD program has been revised effective September 1998. The following program listed in this edition of the University Calendar applies only to those students admitted for September 1998. Continuing students in this program are directed by the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Oral Health Sciences for further information.

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

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

Years 3 and 4 are the clinical years that are a continuum from autumn of third year to the end of Year 4. This includes a Link course of 4 weeks, followed by a student internship of approximately 54 weeks, an elective program of approximately 14 weeks and a selective program of approximately 4 weeks developed by each student in consultation with the Undergraduate Medical Education Office. A wide range of approved elective and selective programs in all aspects of medical science, medical practice and related areas is available.

94.3.2 Course Requirements

Year 1

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

Year 2

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

Years 3 and 4

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

94.4 Honors in Research Program in Medicine

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

94.5 Degree of BSc in Medical Laboratory Science

94.5.1 General Information

The Faculty of Medicine and Oral Health Sciences offers an undergraduate degree program in Medical Laboratory Science to meet the demand

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

The preprofessional year and Phases I and III of the program are normal university years. Phase II, beginning approximately July 1, consists of clinical hospital laboratory training under the direct supervision of the Faculty of Medicine and Oral Health Sciences. 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 Oral Health Sciences before beginning Phase I.

94.5.2 Program of Courses

Phase I	Phase II – Clinical Rotation (See Note 1)	Phase III (See Note 2)
1. MMI 240 (★6)	1. BIOCH 203 (★3)	1. ★12 chosen from: MLSCI 430,460, 465, 475, MMI 426 or 427 or 405 or 415; MMI 440
2. MLSCI 230 (★3)	2. BIOCH 205 (★3)	2. MLSCI 480 (★3)
3. MLSCI 235 (★1)	3. MLSCI 320 (★3)	3. MLSCI 410 (★1)
4. MLSCI 250 (★2)	4. MLSCI 330 (★5)	4. Project course: INT D 491 (★6) or 409 (★3) and Science option (★3) (see Note)
5. MLSCI 262 (★3)	5. MLSCI 340 (★5)	5. Arts option (★6)
6. MLSCI 263 (★3)	6. MLSCI 350 (★3)	6. Approved option (★3)
7. MLSCI 270 (★3)	7. MLSCI 360 (★6)	
8. PHYSL 162 (★6)	8. MLSCI 370 (★3)	
9. Arts Option (★3)		

Notes

(1) During the Phase II clinical rotation, students are assigned to hospital laboratories approved for this purpose by the Council of the Faculty of Medicine.

(2) ★3 in a Science option are required if a ★3 project is attempted. ★0 in a science option are required if a ★6 project is attempted.

94.6 Honors in Research Program in Medical Laboratory Science

This program is for students looking for in-depth exposure to research during Medical Laboratory Science education. Students wanting to pursue this program will have a GPA of at least 7.5 in courses taken in the first and second phases of the program and will have completed STAT 141, 151, 237, or equivalent. Students must spend one summer (16 weeks) and complete a ★6 research course offered by the Division. All students are supervised by a staff member who has shown commitment to the project and to the financial support of the student for the summer months. The program is monitored by the PhD in Medical Sciences Committee. Successful students receive recognition on their transcripts and degrees through the notation "With Honors in Research." For information, contact the Director, Division of Medical Laboratory Science, B-117 Clinical Sciences Building.

94.7 Degree of Bachelor of Medical Science

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

First Year

Two Science Courses
Three Arts or Science Courses

Second Year

Two Science Courses
Three Arts or Science Courses

Third Year

First-year of the MD Program

Fourth Year

Second-year of the MD Program

Provisions

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

94.8 Graduate Studies

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

94.9 Continuing Medical Education

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

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

94.10 Continuing Oral Health Sciences Education

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

94.11 Postgraduate Medical Education

Postgraduate medical training is a component of eligibility for licensure in Canada. Programs are operated by the University of Alberta according to guidelines established by the College of Family Physicians of Canada and by the Royal College of Physicians and Surgeons of Canada.

Postgraduate training accredited by the College of Family Physicians of Canada is available under the auspices of the Department of Family Medicine. In addition to the standard two-year program required for certification in Family Medicine, a certificate program in Emergency Medicine and a diploma program in Care of the Elderly are also available with an additional year of training.

Specialty programs accredited by the Royal College of Physicians and Surgeons of Canada include the following:

94.11.1 Primary Certification Programs

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

94.11.2 Certificate of Special Competence Programs

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

94.11.3 Accreditation Without Certification Programs

Critical Care Medicine
 Neonatology

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

For students seeking more academic careers, opportunities exist for combined clinical and MSc/PhD training through the Clinical Investigators Program. Further information is available from the Office of Research, 2J2.11 Walter C Mackenzie Health Sciences Centre, University of Alberta, Edmonton, AB T6G 2R7

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

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

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

- (1) An MD degree.
- (2) The Licentiate of the Medical Council of Canada (LMCC), obtained after successfully passing Parts I and II of the Medical Council of Canada Qualifying Examination (MCCQE). Part I is written in May of the final year

of medical school. Part II is written after completing 12 months of postgraduate clinical training.

- (3) Certification from either the College of Family Physicians of Canada or the Royal College of Physicians and Surgeons of Canada.

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

95 Courses

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

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