

# Faculty of Medicine and Dentistry

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DR ED PETERS (foreground)  
1998 and 1999 Best Lecturer Award

DR CHRIS BLEACKLEY (background)  
2001 Howard Hughes Medical Institute  
International Research Scholar

## 90 The Faculty of Medicine and Dentistry

### Faculty Vision

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

### Faculty Mission Statement

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

### Values Statement

Scholarship:	We seek and disseminate new knowledge for the benefit of society.
Respect and Caring:	We respect and care for people.
Integrity:	We maintain the highest levels of integrity.
Excellence:	We strive for excellence in all our endeavors.
Community/Teamwork:	We work individually and collectively to achieve common Faculty goals.
Stewardship of Resources:	We ensure utilization of resources.

### Faculty Overview

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

Number of Departments	20
Number of Divisions	11
Number of Research Groups	17
Number of Academic Staff	428
Number of Clinical Staff	1043
Number of Support Staff	983
Numbers of Students and Residents	
Medical Students	424
Medical Residents	468
Dental Students	132
Dental Residents	3
Dental Hygiene Students	123
Medical Laboratory Science Students	49
Graduate Students:	224

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

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

# 91 The Professors

## 91.1 Teaching and Scholarship

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

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

In research, the Faculty attracted more than \$82 million in outside funding for 1999-2000, 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 other Centres.

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

## Members of the Faculty

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

### Office of the Dean

**Dean**  
DLJ Tyrrell

**Chief Operating Officer**  
A Bhatti

**Associate Deans**  
RA Bear  
CI Cheeseman  
P Davis  
G Elleker  
PA Gordon  
GW Raborn  
JH Weiner

**Assistant Deans**  
P Man  
M Moreau  
MC Palmer  
V Yiu

**Faculty Service Officers**  
V Chlumecky  
DM Gupta

**Administrative Officers**  
BK Esslinger  
C Iwanicka

### Faculty Departments

#### Anesthesiology and Pain Medicine

**Chair and Professor**  
BA Finegan

**Professors**  
\*AS Clanachan  
BT Finucane

**Associate Professor**  
RA Kearney

**Assistant Professor**  
S Rashiq  
B Tsui

**Clinical Professor**  
R Gregg

#### Associate Clinical Professors

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

**Assistant Clinical Professors**  
R Brown  
BJ Bucyk  
M Buss

D Cave  
PG Cisar  
MR Cohen  
BP Delbecq  
A Doyle  
JM Dupuis  
KA Faccenda  
V Ford  
D Gamez  
M Gregoret-Quinn  
AS Guest  
S Gupta  
DA Hardy  
R Haugen  
LY Huang  
MS Jacka  
V Jensen  
DT Jolly  
MJ Kinahan  
N Klassen  
JP Koller  
B Kropelin  
ER Lazar  
IA MacDonald  
K Martindale  
P Matthey  
DA Mercereau  
JA Moir  
KA Munn  
S Nathan  
CJ Noble  
A Nunes  
P O'Connor  
SA Olson  
BZ Petriw  
SJ Reid  
H Reine  
ZS Saleh  
S Scott  
C Tang  
BP Unger  
DH Wiebe  
PD Wildgrube

#### Clinical Lecturers

MH Bercovich  
C Cave  
JR Charlton  
A Fitzmaurice  
JC Hrazdil  
E Man  
L Nadwidny  
OJ Schneider

#### Biochemistry

**Chair and Professor**  
BD Sykes

**Professors**  
RC Bleackley  
DN Brindley  
\*CE Cass  
MJ Ellison  
L Fiegel  
MNG James  
RN McElhanev  
M Michalak  
P Scott  
JC Stone  
\*DLJ Tyrrell  
DE Vance  
JH Weiner

#### Associate Professors

LB Agellon  
\*R Godbout  
CFB Holmes  
BD Lemire  
MC Schultz

#### Assistant Professors

\*J Casey  
JNM Glover  
\*B Hazes  
A MacMillan  
C Fernandez-Patron  
L Schang  
L Spyropoulos

D Stuart  
K Wilson

#### Professors Emeriti

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

#### Faculty Service Officers

R Milner  
WT Wolodko

#### Administrative Officer

GM Redmond

#### Biomedical Engineering

**Chair and Professor**  
PS Allen

#### Professors

\*RV Rajotte  
RE Snyder  
\*JF Wolfaardt

#### Assistant Professors

C Beaulieu  
\*DJ Emery  
MA Gorassini  
KE Jones  
VK Mushahwar  
AH Wilman

#### Professors Emeriti

D Fenna  
DJ Griffiths  
TR Overton

#### Adjunct Professors

D Bennet  
CJ Backhouse  
MG Faulkner  
\*RH Hooper  
ZJ Koles  
H Uludag

#### Cell Biology

**Chair and Professor**  
RA Rachubinski

**Professors**  
RB Campenot  
\*WJ Gallin  
TL Krukoff  
P Melancon  
\*D Pilgrim  
BR Stevenson

#### Associate Professors

T Hobman  
M Pasdar  
E Shibuya  
R Wozniak

#### Assistant Professors

J Aitchison  
L Berthiaume  
\*R Lehner  
Z Wang

#### Professor Emeritus

RS Smith

#### Dentistry

##### Associate Dean and Chair

GW Raborn

##### Professors

FM Eggert  
HE ElBadrawy  
KH Gibb  
KE Glover  
LW Klaine  
PW Major  
WT McGaw  
NC Milos  
E Peters

JFL Pimlott  
KM Polukoshko  
PD Schuller  
DA Scott  
PG Scott  
JA Theodore

#### Associate Professors

E Edgington  
E Lam  
DJ Pehowich  
JN Pochynok  
HK Tan

#### Assistant Professors

S Cobban  
C Yacyszyn

#### Clinical Professors

HK Compton  
A Eastwood  
B Gitzel  
RD Haryett  
EA Krause  
D Pettigrew  
C Revell  
J Ritchie  
EC Robinson  
HL Samuels  
JA Scott  
EW Tunis  
J Woronuk  
CC Yu  
DC Yu

#### Clinical Associate Professors

BS Bennett  
N Chalk  
LC Chan  
S Compton  
R Croutze  
CK Fialko-Eshenko  
S Ganatra  
D Gotaas  
I Kuc  
R Labahn  
S Laih  
VP Lee  
J Lockau  
C MacDonald  
DJ MacDougall  
E McIntyre  
H McLeod  
LR Moore  
B Nebbe  
BR Neumann  
SK Patterson  
PL Pierce  
W Preshing  
W Primrose  
EC Robinson  
P Schulte  
W Smith  
TR Stevenson  
MT Taciuk  
RL Tegart  
N Thie  
WG Wesner  
KW Wong  
G Zenith

#### Clinical Assistant Professors

K Bapoo-Mohamed  
DH Bedard  
L Best  
AH Brouwer  
E Burgess  
CG Caruk  
R Cox  
J Croutze  
M Diab  
J Doberstein  
W Dobrovolsky  
R Eamer  
R Easton  
D Eliuk  
P Gainer  
G Grykuliak  
K Habib

DBC Hayashi  
C Hildebrand  
A Hoh  
M Howell  
E Jang  
H Janke  
G Jansen  
M Kaiser  
D Kelner  
R Kreutz  
EWL Kwan  
J Leakey  
S Lockwood  
K Lung  
L Mowat  
R Mullen  
U Nassar  
D Nixdorf  
R Schafers  
A Tam  
GP Wendell  
AO Wong  
D Wong  
P Wooding  
J Yacyshyn  
PKC Yeung  
HC Yu

**Clinical Instructors**

K Acton  
N Bornau  
G Burke  
R Caldwell  
C Chiu  
D Chow  
J Dalmer  
D David  
J Evancusky  
C Fenton  
A Fyith  
S Heglund  
L Hursin  
N Jinnah  
M Kun  
M Lalh  
T Lau  
K Lloyd  
C Low  
V Luikham  
D Lunardon  
I Mah  
C Martin-Neumeyer  
H Nguyen  
J Pan  
M Pokroy  
C Patrickson  
G Salvia  
K Sandilands  
A Sheppard  
U Szkudlarek  
J Thomas  
C Tuazon  
L Voltner

**Professors Emeriti**

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

**Family Medicine****Chair and Professor**

GR Spooner

**Professors**

RG Chaytors  
\*B Holroyd  
\*P Jacobs  
DG Moores

**Associate Professors**

NR Bell  
FR Brenneis  
R Brownoff  
A Cave  
S Esmail  
\*GE Cummings  
MG Donoff  
\*RL Fainsinger  
P Humphries  
P Klemka  
EH Krikke  
I Steiner  
J Triscott

**Assistant Professors**

M Cave  
D Chang  
N Hans  
S Hughes  
D Ross  
R Soin  
L Steblecki  
P Yoon

**Clinical Professor**

\*TD Sosnowski

**Associate Clinical Professors**

SK Aung  
AE Ausford  
\*MA Cherniawchan  
KJ Gardener  
H Hays  
HR Hindle  
CJ Lord  
EW Papp  
EP Schuster  
\*DL Shragge

**Assistant Clinical Professors**

WD Armstrong  
MA Atrons-Sharko  
DH Banmann  
GR Blais  
\*DW Bond  
\*HA Borkent  
\*M Boulanger  
\*JJ Brown  
PA Caffaro  
SW Chambers  
WE Clelland  
IE Colliton  
R Cunningham  
\*CGM Evans  
N Flook  
JG Gokiert  
\*MS Gross  
ME Hurlburt  
GW Jakeway  
\*SK Kelcher  
DA Kent  
TD Kolotyluk  
DJ Konkin  
\*RT Kruhlak  
\*MJ Long  
SE Low  
DS Mackey  
D Manca  
\*AR Murray  
J Parmar  
\*WR Patton  
\*GL Phillips  
TF Ranieri  
M Reedyk  
JG Reilly  
JM Robinson  
WE Schneider  
MR Smith

RM Stepanko  
JR Tilley  
\*AF Walker  
BRB Whittaker  
HA Zirk

**Clinical Lecturers**

\*BL Abel  
JR Andreiuk  
DM Andriashek  
FW Armstrong  
JB Armstrong  
MD Armstrong  
H Bablitz  
I Bailes  
AL Bailey  
L Baker  
T Bakshi  
\*DJ Barer  
P Barrett  
JB Barsky  
JE Bell  
L Bernier-Lycka  
MM Bodmer  
DW Boettger  
MA Bowland  
BW Boyko  
TB Bray  
\*RG Brown  
MJ Caffaro  
DB Cave  
AYL Chiu  
JF Chiu  
DJ Cook  
JE Craig  
RF Crowe  
NAC Da Cunha  
\*JMB Davidson  
\*BC Deane  
LD Dujon  
RH Dunbar  
LR Edwards  
SM Fairgrieve-Park  
\*SD Flanagan  
TF Flanagan  
K Ghali  
SC Ghitler-Mannes  
JM Godel  
NM Gray  
DJ Hamilton  
JJ Hankinson  
VM Hanlon  
BC Hayden  
TL Heisler  
ES Holmes  
\*DJ Hryciuk  
JR Hunter  
AJ Jarema  
CG Johnston  
RB Kaasa  
MC Kash  
PE Keith  
DG Killick  
DJ Klein  
MR Kolber  
DW Korzenowski  
GA Lamoureux  
R Laughlin  
DM Leung  
MR Lidkea  
CC Lopaschuk  
KAH Lundgard  
LM Ma  
\*K Mangán  
PA Marner  
RA Martin  
M Matic  
GG Mazurek  
T McKeown  
DP Miller  
\*JA Mohler  
\*W Molberg  
EM Mori-Torres  
NJ Morison  
MG Moss  
JD Murphy  
DL Myhre

N Nanda  
ED Ndovi  
S Needham  
\*KD Neilson  
BL Oldale  
P Palma  
P Paludet  
DJ Paras  
AJD Pope  
\*SA Poplawski  
\*RA Purser  
R Rajput  
\*DA Reid  
WJ Reynolds  
BD Ritchie  
JD Ritchie  
JC Routledge  
PJA Ruitter  
DR Yuan  
JJ Saunders  
\*GD Scheierer  
S Schipper  
\*RK Sherman  
HS Sidhu  
\*TP Stetsko  
\*DF Stewart  
K Towers  
\*AW Ushko  
J Weaver  
DA Webb  
RJ Wedel  
DS Welch  
\*CN Westover  
ML Wickland-Weller  
HP Woytiuk  
\*AK Yeung  
C Young  
MJ Young

**Professors Emeriti**

RR Cherry  
GL Higgins

**Faculty Service Officer**

O Szafran

**Adjunct Professors**

\*NL Gibson  
L Meadows

**Laboratory Medicine and Pathology****Chair and Professor**

VA Tron

**Professors**

PA Gordon  
LD Jewell  
LE McGann  
\*TW McGaw  
G Nguyen  
\*J Preiksaitis  
K Solez  
\*RW Yatscoff

**Associate Professors**

FJ Bamforth  
G Cembrowski  
RW Coupland  
J Hugh  
HAA Idikio  
ES Johnson  
\*K Kowalewska-Grochowska  
\*XC Le  
M Louie  
PN Nation  
RF Power  
DC Rayner  
\*AR Turner

**Assistant Professors**

MB Bowen-Yacyshyn  
AS Easton  
C Hao  
I Mirza  
S Nahiriak  
L Puttagunta  
G Tyrrell

**Clinical Professors**

WS Etches  
DF LeGatt  
\*RP Rennie  
\*EH Schlos

**Associate Clinical Professors**

RJ Audette  
RC Berendt  
JM Danyluk  
DTP Dawson  
AJ Derbawka  
GP Dowling  
\*S Ganatra  
\*J Hannon  
TE Higa  
GH Johnson  
C Prosser  
LJM Russell  
\*JA Talbot  
T Thay  
DJ Willans

**Assistant Clinical Professors**

K Alanen  
B Bannach  
H Berendt  
G Blakney  
LGJ Boutin  
G Clarke  
P Colbourne  
LN Denmark  
C Ewanowich  
S Girgis  
HL Gritter  
T Higgins  
GR Jones  
DW Kinniburgh  
SF Lee  
PL Letendre  
VL McCann  
DR McLean  
GD Neuman  
G Orlando  
N Rayani  
M Saddick  
N Satkunhan  
ICF Sin  
D Wenzel  
GO Wood  
HWA Wu  
L Yakymyshyn

**Professors Emeriti**

\*JB Dosssetor  
LH Honore  
GA Macnin  
CC Lin  
BW Mielke  
TK Shnitka  
RA Stinson  
RJ Swallow

**Adjunct Professors**

A Malcolm  
M Stewart

**Medical Laboratory Science****Director and Associate Professor**

FJ Bamforth

**Assistant Professor**

M Fraser  
LE Purdy

**Lecturers**

EE Rivait  
CJ Ward  
MA Williams

**Clinical Lecturers**

M Ackney  
R Cunningham  
R Lane  
I Simpson

**Administrative Officer**

JL McPhee

**Medical Genetics****Chair and Professor**

DW Cox

**Professors**

\*I MacDonald  
\*H McDermid  
DJ Tomkins

**Associate Professors**

JS Bamforth  
\*D Gilchrist  
N Leonard  
B Rannala  
M Somerville  
\*M Walter  
R Wevrick

**Assistant Professors**

S Andrew  
\*FJ Bamforth  
AJK Chan  
DM Glerum  
D Underhill  
\*PW Wong

**Medical Microbiology and Immunology****Chair and Professor**

JR Smiley

**Professors**

GD Armstrong  
\*D Befus  
\*M Belosevic  
JF Elliott  
\*EA Fanning  
\*G Goldsand  
LJ Guilbert  
\*PF Halloran  
RT Irvin  
K Kane  
\*R Moqbel  
HL Ostergaard  
\*LM Pilarski  
\*A Rabinovitch  
L Sigler  
DE Taylor  
\*GD Taylor  
DLJ Tyrrell  
\*JH Weiner

**Associate Professors**

\*SC Houston  
\*AM Joffe  
K Kowalewska-Grochowska  
\*DY Kunimoto  
\*W Maksymowich  
\*L Miedzinski  
MS Peppler  
\*JK Preiksaitis  
\*W Vaudry

**Assistant Professors**

M Barry  
D Burshtyn  
B Hazes  
R Kumar  
\*J Robinson  
\*L Schang  
\*GJ Tyrrell

**Clinical Professors**

SI Hnatko  
RP Rennie

**Associate Clinical Professors**

\*B Romanowski  
JA Talbot

**Assistant Clinical Professors**

E Blondel-Hill  
\*L Boychuk  
JC Galbraith  
B Lee  
J Nigrin  
R Verity





A Prochazka  
RB Stein  
JD Young

**Associate Professors**

SC Barton  
CG Benishin  
JR Casey  
\*ST Davidge  
M Duszyk  
JJ Greer  
E Karpinski  
\*RZ Lewanczuk

**Assistant Professors**

X-Z Chen  
\*A Easton  
\*TJ Kieffer  
PV Nguyen

**Professors Emeriti**

KJ Hutchison  
PKT Pang

**Administrative Officer**

OM Findlay

**Adjunct Professors**

\*GR Foxcroft  
\*RL Jones

**Psychiatry****Chair and Professor**

GB Baker

**Honorary Professor**

EI Picard

**Professors**

RC Bland  
AJ Greenshaw  
SC Newman  
PH Silverstone

**Associate Professors**

JH Brooks  
NJ Coupland  
GS Hnatko  
AS Joyce  
J LeMelledo  
J Metelitsa

**Assistant Professors**

P Tibbo  
K Todd

**Clinical Professors**

J Beach  
P Beausejour  
M Blackman  
CA Blashko  
KM Collinson  
N Costigan  
J Eustace  
P Flor-Henry  
KD Gendemann  
A Gordon  
DW Grover  
CA Hapchyn  
RE Hibbard  
S Levin  
JG O'Kelly  
HM Piktet  
JS Rosie  
PM Segal  
T Snyder  
B Sowa  
PI Steinberg  
BF Turner  
LB Warneke  
HM Wojcicki  
M Yalfo

**Associate Clinical Professors**

LM Adams  
JL Banasch  
HM Barker  
AB Bremness  
O Cadsky  
AM Carroll  
P Chue  
PE Copus

R Drebit  
RJ Dyck  
DR Guinhawa  
L Kagan  
E Lobo  
M McCallum  
KF McKenna  
P Mills  
BR Mirtle  
JW Osinchuk  
L Pawluk  
SE Purdon  
JK Rodgers  
BS Sanderman  
D Shih  
L Studer  
M Swanson  
M Tweddle  
PJ White

**Assistant Clinical Professors**

B Bishop  
D Block  
C Buchholz  
PE Carr  
C Carter  
WT Chimich  
P Chokka  
MG Cummins  
M Demas  
JM Dewart  
S Dobrofsky  
CK Froelich  
DJ Gill  
DR Ginter  
RA Gurke  
N Hanon  
JM Hinton  
A Holt  
Z Ismail  
AL Khaliq  
K Lawless  
JB Lefsrud  
RC Lundeen  
R Maitra  
S Matthews  
WA McCay  
E McKaigney  
DW Meakins  
C Moreau  
F O'Croinin  
WF Otto  
MB Parsons  
LJ Phillips  
A Poukhovski  
EM Schwab  
JR Scott  
B Stich  
RP Taubner  
L Trichard  
L Urchuk  
DYW Wong

**Clinical Lecturers**

GR Acton  
H Anand  
F Bahrey  
S Bowman  
M Buchinski  
L Caffaro  
J Carr  
J Caryk  
J Chu  
R Dempsey  
S Duggal  
SC Duncan  
FM Fogarty  
T Hughie  
ND John  
V Jordan  
KL Kirdeikis  
K Lefko-Singh  
TR Leiper  
A Leung  
D Li  
J Long  
D Lyon  
AW McIntyre

S Mitchell  
C Morhaliek  
SP Nigam  
J O'Mahoney  
CL Phillips  
S Santana  
G Schoepp  
L Schuster  
Y Shapiro  
V Singh  
L Smit  
DL Spaner  
D Spence  
F Ullah  
J Ustina

**Professors Emeriti**

RT Coutts  
P Hays  
G Hopkinson  
B Sinha  
JW Urschel  
KA Yonge

**Faculty Service Officer**

D James

**Administrative Officer**

LC Hein

**Adjunct Professors**

AN Bateson  
M Bourin  
AB Douglass  
N el-Guebaly  
\*KM Hegadoren  
\*H Jacobs  
\*MB Parent  
WE Piper  
E Starreveld  
AH Thompson  
GD Watson  
AF Wilson  
NJ Witt

**Public Health Sciences****Chair and Professor**

Acting SE Hruddy

**Professors**

N Cherry  
D Feeny  
D Hailey  
CB Hazlett  
P Hessel  
P Jacobs  
LM Laing  
D Menon  
\*SE Newman  
DL Saunders  
A Senthilselvan  
CL Soskolne

**Associate Professors**

D Cassidy  
J Carroll  
\*T Caulfield  
G Griener  
L Francescutti  
PR Hatcher  
RS Hayward  
J Johnson  
WE Kipp  
XC Le  
A Ohinmaa  
\*RH Plain  
L Shanner  
A Thompson

**Assistant Professors**

J Church  
K Froese  
G Jhangri  
DJ Kutsogiannis  
XF Li  
KV Rondeau  
P Rothe  
OHT Triska  
TC Wild

**Clinical Professor**

JM Howell

**Professors Emeriti**

KS Bay  
SM Stinson  
D Wilson

**Adjunct Professors**

TF Almeida  
\*B Bear  
\*N Bell  
DA Birkholz  
KC Carriere  
T Chowdhury  
P Clarke  
KJ Corbet  
T Craddock  
P Cuddy  
S Demeter  
L Derry  
K Fassbender  
H Fatoo  
\*B Fisher  
N Fok  
G Gibbs  
N Gibson  
GC Granville  
L Gross  
T Guidotti  
J Hatcher  
H Hoffman  
B Hohn  
\*B Holroyd  
\*S Houston  
D Jirsch  
M Johnson  
D Johnston  
\*T Klassen  
VG Lappi  
F Lau  
B Lauder  
RC May  
\*F McAlister  
M McGinn  
L McNamara  
K Ness  
KR Nickerson  
J O'Laney  
\*S Patterson  
DJ Philippon  
R Plotnikoff  
G Predy  
L Reynolds  
B Rowe  
D Schopfhofer  
AM Scott  
D Smith  
K Smoyer  
\*D Spady  
R Stacy  
B Stephens  
\*M Stewart  
L Svensen  
SC Weatherill  
R Wolfe  
K Wong  
W Yacoub

**Radiology and Diagnostic Imaging****Diagnostic Radiology****Acting Chair and Clinical Professor**

MA Johnson

**Professors**

\*PS Allen  
\*AJB McEwan  
\*DB Russell  
\*A Walji

**Associate Professor**

\*SA Jackson

**Assistant Professors**

\*C Beaulieu  
R Bhargava

D Emery  
LJ Filipow  
A Joshua  
RGW Lambert  
L Le  
\*AH Wilman  
B Wong

**Clinical Professors**

G Andrew  
\*M Grace  
RC Hennig  
MT Sin

**Associate Clinical Professors**

T Ackerman  
T Alexander  
W Anderson  
R Arnold  
RA Ashforth  
G Askew  
J Barrie  
I Birchall  
S Halls  
PG Heslip  
MK Hirji  
M Hoskinson  
M Hutson  
H Jen  
G Lauf  
CG Maguire  
M O'Keefe  
S Rao  
G Raymond  
D Reich  
WL Ritchie  
G Sterling  
TJ Terry  
GP Trepanier  
DB Vickar  
RS Warshawski  
E Wiebe

**Assistant Clinical Professors**

S Adams  
S Appavoo  
W Berezowski  
B Campbell  
B Caplan  
K Cheung  
C Chmielowiec  
N Cochrane  
T Elliot  
D Foster  
BD Guspie  
O Hoffman  
R Holub  
T Horwitz  
WG Keenan  
A Kumar  
C Lummer  
P Maguire  
M Mah  
D Mueller  
S Naik  
J Ng  
M Noga  
KF O'Kelly  
W Parker  
L Paskar  
EJ Preville  
KN Puznak  
B Rawat  
R Sherlock  
WB Short  
T Spiers  
JF Swersky  
AS Tang  
B Taylor  
JGE Turner  
B Ward

**Clinical Lecturers**

A Bistriz  
T Black  
C Copeland  
CG Elias  
S Greenspan  
JP Hyde

S Kitay  
K Kristjanson  
N Lakis  
C Lywood  
S Manji  
NE Maslo  
M McCarthy  
R McEwen  
R Owen  
M Partrick  
V Patel  
R Pawluk  
DA Shamchuk  
H Shein  
W Sugars  
C Torbiak  
R Turner  
G Van Der Merwe

**Clinical Instructor**

C Olsen  
E Smith

**Professor Emeriti**

JDR Miller  
DB Russell

**Nuclear Medicine****Director and Associate Clinical Professor**

CG Maguire

**Professor**

\*AJB McEwan

**Assistant Professor**

\*AV Joshua

**Associate Clinical Professors**

R Arnold  
PG Heslip  
H Jen  
C Maguire  
M O'Keefe  
RS Warshawski

**Assistant Clinical Professors**

C Chmielowiec  
AS Tang  
B Taylor

**Surgery****Chair and Professor**

SM Hamilton

**Administrative Officer**

TM Vanden Broek

**Office of Surgical Education**

D Madu

**Cardiothoracic Surgery****Director and Clinical Professor**

A Koshal

**Professor**

\*R Yatscoff

**Associate Professors**

\*W Chin

**Clinical Professors**

ET Gelfand  
A Koshal  
\*IM Rebeyka

**Associate Clinical Professors**

\*CR Guenther  
DL Modry  
JC Mullen  
DB Ross

**Assistant Clinical Professor**

S Wang

**Professor Emeritus**

JC Callaghan

**General Surgery**

Director and Associate Professor  
CJ de Gara

Professors  
SM Hamilton  
NM Kneteman

Associate Professors  
CJ deGara  
AMJ Shapiro

Assistant Professors  
DL Bigam  
RJ Brisebois  
\*SL Logsetty  
DC Williams

Clinical Professors  
RA Hallgren  
DW Jirsch  
S Kilam  
WJ Mackie

Associate Clinical Professors  
DO Adams  
PD Davey  
\*MG Evans  
BW Johnson

GM Lees  
JF Mossey  
EA Plewes  
AW Procyshyn  
MH Stephens  
HL Stewart  
WM Struck

Assistant Clinical Professors

D Callahan  
HR Chyczij  
KD Dabbs  
JD Matheson  
MA Meier  
AVF Sobey  
AF Trautman  
RG Turnbull  
WJ Yakimets

Clinical Lecturers  
D Berg  
M Chatenay  
CJ Ciona  
O Heisler

Professors Emeriti

KL Bowes  
S Kling  
RAL Macbeth  
GW Scott  
OG Thurston  
HTG Williams  
WW Yakimets

Adjunct Professor  
S Issa

**Neurosurgery**

Director and Clinical Professor  
KC Petruk

Professor  
\*J Tulip

Associate Professor  
\*KE Aronky

Assistant Professor  
\*A Gainer

Clinical Professors  
JM Findlay  
JDS McKean  
KC Petruk

Associate Clinical Professor  
DE Steinke

Assistant Clinical Professors  
RW Broad  
RJ Fox

V Mehta  
WJ O'Callaghan

Clinical Lecturer  
BM Wheatley

Professor Emeritus  
BKA Weir

**Orthopaedic Surgery**

Director and Associate Clinical Professor  
DD Otto

Professors  
\*KM Bagnall  
DC Reid

Clinical Professors  
RM Glasgow  
DWC Johnston  
\*M Moreau

Associate Clinical Professors  
JG Cinats  
\*JK Mahood  
\*JB McIvor  
DD Otto  
WM Rigal  
GG Russell

Assistant Clinical Professors

GD Arnett  
RA Balyk  
D Dick  
TH Greidanus  
LE Hunka  
KW James  
FB Kortbeek  
GJ Lavoie  
MV Lavoie  
PMK Leung  
JF McMillan  
GJ O'Connor  
KJ Russell  
DW Weber

Clinical Lecturers  
MJ Bouliane

J Bury  
NM Jomha  
EC Masson  
RE Steigelmar

Clinical Instructor  
BJ Greenhill

Research Associates  
D Hill  
V Raso

Adjunct Professor  
LA Davis

**Otolaryngology**

Director and Clinical Professor  
DJ Oldring

Assistant Professor  
JR Harris

Clinical Professors  
CS Carter  
WH Kudryk  
DJ Oldring

Associate Clinical Professor  
H Seikaly

Assistant Clinical Professors  
JC DiToppa  
\*CA Elliott  
JD Keohane

Clinical Lecturers  
OM Bykowski  
\*H El-Hakim  
JA Kostjuk  
R Liu

**Pediatric Surgery**

Director and Associate Professor  
KE Aronky

Clinical Professors  
\*RA Hallgren  
MJ Moreau  
\*IM Rebeyka  
\*GH Wilkes

Associate Clinical Professors

\*DO Adams  
\*PD Davey  
\*MG Evans  
\*GM Lees  
JK Mahood  
JB McIvor  
\*JB Metcalfe  
\*DB Ross

Assistant Clinical Professors

\*D Dick  
CA Elliott  
\*G Louie  
LW Mix

Clinical Lecturer  
H El-Hakim

**Plastic Surgery**

Director and Clinical Professor  
GW Lobay

Professors  
\*LE McGann  
EE Tredget

Associate Professor  
A Ghahary

Assistant Professor  
SL Logsetty

Clinical Professors  
GW Lobay  
GL Moysa  
GH Wilkes

Associate Clinical Professor  
DD Campbell

Assistant Clinical Professors

DC Edwards  
MJ Giuffre  
T Hayashi  
G Louie

Clinical Lecturer  
BM Mehling

Professor Emeritus  
JDM Alton

Adjunct Professor  
S Nagata

**Surgical Research**

Director and Professor  
EE Tredget

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

Associate Professor  
GS Korbutt

Assistant Professors  
TA Churchill  
A Gainer  
JRT Lakey

Research Associate  
LF Zhu

Professors Emeriti  
KP Kowalewski  
GW Scott  
DC Secord

Adjunct Professor  
MP Mintchev

**Thoracic Surgery**

Director and Associate Professor  
TL Winton

Assistant Professor  
A Valji

**Urological Surgery**

Director and Associate Clinical Professor  
MP Chetner

Associate Professors  
RB Moore  
GT Todd

Associate Clinical Professors  
MP Chetner  
DR Mador  
JB Metcalfe

Assistant Clinical Professors

RP Abele  
MJ Allard  
B Bochinski  
EP Estey  
GJ Gray  
M Hobart  
\*LW Mix  
SM Robinson  
MN Weisler  
TA Wollin

Professors Emeriti

WH Lakey  
JW Lown  
MS McPhee  
JO Metcalfe

Adjunct Professor  
KN Moore

**Faculty Divisions****Anatomy**

Director and Professors  
AH Walji

Professors  
KM Bagnall  
DA Begg

Associate Professors  
\*AS Roo  
DNP Singh

Professors Emeriti

TS Leeson  
K McFadden  
DB Russell  
HIA Zaw-Tun

**Continuing Medical Education and Multimedia Production Services**

Director and Professor  
P Davis

Assistant Directors  
SE Low  
KJ Skeith

**Critical Care Medicine**

Acting Director and Clinical Professor  
\*RT N Gibney

Professors  
\*I Mayers  
\*E Tredget  
\*T Winton

Associate Professors  
\*WD Chin

\*PC Etches  
\*A Peliowski  
\*M Stephens

Assistant Professors

\*R Brisebois  
\*L Cheung  
\*DJ Kutsogiannis  
\*S Logsetty

Associate Clinical Professors

\*A Conradi  
\*M Heule  
\*RG Johnston  
\*DL Modry  
\*W Murtha  
\*DE Stollery

Assistant Clinical Professors

\*A deCaen  
\*CR Guenther  
\*M Jacka  
\*A Joffe  
\*A Liu  
\*S Marcushamer  
\*JD Matheson  
\*M Meier  
\*J Mullen  
\*D Muzyka  
\*A Shustack  
\*A Sobey

Clinical Lecturers

\*M Henry  
\*E Rokosh  
\*M Zibdawi

**Emergency Medicine**

Director and Professor  
BR Holroyd

Associate Professor  
M Bullard  
GE Cummings  
\*L Francescutti  
B Rowe  
\*IP Steiner

Assistant Professors  
\*PW Yoon

Clinical Professor  
\*TD Sosnowski

Associate Clinical Professors  
MA Cherniwchan  
W Patton  
DL Shragge

Assistant Clinical Professors

M Atrens-Sharko  
B Bernardin  
D Bond  
HA Borkent  
MJ Boulanger  
JJ Brown  
R Cunningham  
CGM Evans  
R Hansen  
P Jain  
R Kruhlak  
R Lee  
M Long  
C Neal  
DC Perry  
G Phillips  
\*SA Poplawski  
C Rabuka  
W Sevcik  
A Travers  
AF Walker

Professor Emeritus  
JB Dossetor

**Neuroscience**

Director and Professor  
KG Pearson

Professors  
\*GB Baker  
\*RB Campenot  
\*WF Colmers  
\*WF Dryden  
JI Goldberg  
\*T Gordon  
\*AJ Greenshaw  
\*S Harvey  
MM Hodge  
\*JH Jhamanalo  
\*TL Krukoff  
S Kumar  
\*WR Martin  
\*KG Pearson  
RE Peter  
\*A Prochazka  
\*A Shuaib

Adjunct Associate Clinical Professor  
I Vicas

Clinical Lecturers  
BL Abel  
D Barer  
B Brown  
K Cromwell  
R Daloise

\*JMB Davidson  
B Deane  
B Diner  
S Flanagan  
K Foster  
J Franc-Law  
GAJ Groot  
D Hoshizaki  
D Hryciuk  
RJ Ibach  
S Jones  
K Mangan  
J McKague  
\*AR Murray  
DW Neilson  
K Neilson  
\*RA Purser  
J Mohler  
W Molberg  
M Moss  
P Rawlek  
D Reid  
S Ross  
G Scheirer  
R Scheirer  
L Shenfield  
R Sherman  
L Sim  
A Stagg  
\*TP Stetsko  
\*DF Stewart  
A Ushko  
C Westover  
R Yao  
A Yeung  
M Young

**Health Sciences Laboratory Animal Services**

Director and Associate Professor  
PN Nation

Faculty Service Officer  
TF Bayans  
RE Uwiera

**John Dossetor Health Ethics Centre**

Director and Professor  
\*V Bergum

Associate Director Clinical Ethics  
\*P Byrne

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

Professor Emeritus  
JB Dossetor



\*PA Smith  
 \*RB Stein  
 D Treit  
 D Wahlsten  
 J Yang

**Associate Professors**

\*R Camicioli  
 CT Dickson  
 \*JJ Greer  
 D Wong-Wylie

**Assistant Professors**

DW Ali  
 D Bennett  
 \*KM Chan  
 F Colbourne  
 K Fouad  
 M Gorassini  
 \*C Hao  
 KM Hegadoren  
 BKV Maraj  
 J Misiaszek  
 \*P Nguyen  
 CT Putman  
 \*KG Todd  
 \*A Tse  
 \*F Tse  
 CF Westbury  
 EP Zehr

**Clinical Professors**

P Flor-Henry  
 \*KC Petruk

**Adjunct Professors**

AR Dobbs  
 \*JC Lind

## Physical Medicine and Rehabilitation Medicine

Director  
 N Ashworth

**Clinical Professor**

LA Bellamy  
 M Watt

**Assistant Professors**

M Chan  
 L Satkunam

**Associate Clinical Professors**

RS Burnham  
 JB Guthrie  
 JM Nagy  
 L Trachsel  
 E Veszpremi  
 \*M Watt

**Assistant Clinical Professors**

M DiPersio  
 G Gray  
 S Gray  
 E Sampson  
 C Tuchak  
 J Townsend

**Clinical Lecturer**

J Hebert

**Adjunct Professors**

\*BJ Andrews  
 \*RB Stein

## Studies in Medical Education

**Director and Professor**

\*DA Cook

**Associate Director and Professor**

\*SL Aaron

**Professor**

EN Skakun

**Educational Associates**

\*FR Brenneis (Family Medicine)  
 \*VA Capstick (Obstetrics and Gynecology)

\*CI Cheeseman (Associate Dean, UGME, Physiology)  
 \*P Davis (Associate Dean, Continuing Education, Medicine—Rheumatology)  
 \*MG Donoff (Family Medicine)  
 \*G Goldsand (Infectious Diseases)  
 \*C Harley (Medicine)  
 EG Hunter (Pharmacology)  
 \*N Kassam (Medicine)  
 \*PJ Klema (Family Medicine)  
 NJ Leonard (Genetics)  
 L Miedzinski (Infectious Diseases)  
 \*ME Palmer (Assistant Dean—Clinical Education Oncology)  
 \*DC Rayner (Laboratory Medicine and Pathology)  
 \*B Roed (University Teaching Services)  
 \*DW Spady (Paediatrics)  
 \*AR Turner (Medicine—Clinical Hematology)  
 \*DLJ Tyrrell (Dean of Medicine, Medical Microbiology and Immunology)  
 \*AH Walji (Cell Biology and Anatomy)  
 \*Bruce Yacyshyn (Medicine)

**Research Associates**

\*D Blackmore (Medicine Council of Canada)  
 \*BW Fisher (Medicine-General Internal Medicine)  
 \*GL Warnock (Surgery)

**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)  
 H Campbell (Alberta Dental Association)  
 JP Chang (Faculty of Science)  
 A Cook (Dean, Faculty of Rehabilitation Medicine)  
 ALA Fields (Cross Cancer Institute)  
 J Goldberg (Faculty of Science)  
 A Gordon (Provincial Mental Health Board)  
 M Mahon (Dean, Faculty of Physical Education & Recreation)  
 LR Olhauser (College of Physicians and Surgeons of Alberta)  
 G Gray (Dean, Faculty of Nursing)  
 FM Pasutto (Dean, Faculty of Pharmacy and Pharmaceutical Sciences)  
 S Paul (Community Care & Public Health, CHA)  
 G Pedy (Medical Officer of Health, CHA)  
 BJ Silzer (Registrar, U of A)

RS Smith (Vice-President Research and External Affairs)  
 MW Spence (Alberta Heritage Foundation for Medical Research)  
 J-M Turc (Alberta Cancer Board)  
 B Walker (Alberta Dental Hygienist Association)

## 92 General Information

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

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

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

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

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

The Faculty of Medicine and Dentistry conducts the following programs:

### Medical Programs

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

See §94 for details of programs of study.

### Dental Programs

- (1) An accredited four-year program leading to the degree of Doctor of Dental Surgery (DDS). At least two pre-dental years at university are required before admission to this program.
- (2) A Bachelor of Medical Science degree that students registered in the DDS program may apply for after successfully completing the first two years of the DDS program.
- (3) An accredited three-year program leading to the Diploma in Dental Hygiene or a four-year program awarding a Bachelor of Science (Dental Hygiene Specialization).
- (4) MSc and PhD degrees in Medical Sciences (Oral Health Sciences).
- (5) An MSc Degree and Certificate in Orthodontics.
- (6) The Department of Dentistry sponsors a wide variety of continuing dental education opportunities throughout the year through the Continuing Dental Education program. Courses are offered both on campus and occasionally at other sites within the province. Annually, thousands of

dentists, dental hygienists, dental assistants and others participate in the many lecture, hands-on clinical and laboratory type courses that are offered. Local and visiting speakers of national and international reputation provide continuing education of a high quality.

## 92.1 Department of Dentistry Objectives

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

## 92.2 Affiliated Hospitals and Institutions

### 92.2.1 Affiliated Hospitals

The Faculty of Medicine and Dentistry, University of Alberta, conducts its undergraduate, postgraduate and continuing clinical education activities through affiliation agreements and/or special arrangements with appropriate hospital authorities, both within and beyond the Capital Health Region of Alberta. The Faculty is located in the Walter C Mackenzie Health Sciences Centre (which includes the University of Alberta Hospitals), the Heritage Medical Research Centre, the Medical Sciences, Clinical Sciences, and Dentistry Pharmacy Centre Buildings.

### 92.2.2 Family Medicine Rural Teaching Sites

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

### 92.2.3 Northern Health Services Program

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

## 92.2.4 University of Alberta Family Medicine Centres

Ambulatory care facilities, specifically designed for undergraduate and graduate education in family practice, are located at the Grey Nuns and Misericordia Community Hospitals, the Northeast Community Health Centre and the Royal Alexandra Hospital. These "Family Medicine Centres" allow medical and other health science students to participate in providing comprehensive and continuing health care to a representative section of the community under the supervision of 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 Dentistry), 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 APCRU research themes include (1) clinical prevention, (2) education/information dissemination, and (3) health services use and outcomes.

## 92.2.6 University of Alberta Surgical-Medical Research Institute

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

## 92.2.7 University of Alberta Satellite Dental Clinics

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

## 92.3 Registration and Licensing

### 92.3.1 DDS Degree

The Department of Dentistry of the University is accredited by the Canadian Dental Association.

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

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

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

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

### 92.3.2 Dental Hygiene Diploma/Bachelor of Science (Dental Hygiene Specialization)

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

### 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

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

**Note:** The figures are based on 2001/2002; figures are subject to change without notice.

Additional Costs for DDS Students	Year 1	Year 2
Books	1,200	1,100
Dental Kits	10,000	8,500
Dental Students Association	170	170
Year 3	Year 4	
Books	600	400
Dental Kits	2,900	2,200
Dental Students Association	170	170
National Dental Board Exam	N/A	1,450

### 92.4.2 Dental Hygiene Diploma

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

**Note:** The figures are based on 2001/2002; figures are subject to change without notice.

Additional Costs for DH Students	Year 1	Year 2	Year 3
Books	500	900	600
Dental Hygiene Kits	N/A	4,600	2,415
Membership Fees	N/A	90	90
Professional Exam Fee	N/A	N/A	500

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

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

### 92.4.3 Bachelor of Science (Dental Hygiene Specialization)

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

**Note:** The figures are based on 2001/2002; figures are subject to change without notice.

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

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

(See §92.4.3)

## 92.4.5 Advanced Placement Program (DDS)

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

**Note:** The figures are based on 2001/2002; figures are subject to change without notice.

Additional Costs for Students	Year 1	Year 2
Books	800	600
Dental Kits	10,800	2,200
Membership Fees	170	170

## 92.4.6 MD Degree

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

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

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

Details of scholarships and other financial assistance for medical students are available in the Awards section of this Calendar or by contacting the MD Program Office, Admissions and Undergraduate Medical Education, 2-45 Medical Sciences Building; phone (780) 492-6350.

## 92.5 Medical and Dental Society Memberships

The Medical Students' Association (MSA) is the officially recognized organization of medical students. It provides social, informative, and cultural activities for medical students, and sponsors several important community projects. It is authorized to collect a membership fee from each student. The Association provides the following annual awards: the Outstanding Teacher Awards presented to one teacher for excellence as an educator in each year of the program; the Shaner Award presented to a graduating student for exceptional contributions to the work of the Association; the Mackenzie Award presented to a graduating student judged most proficient in clinical skills; and the Fried Award presented to the student intern who has demonstrated exceptional clinical aptitudes in Paediatrics. Some projects sponsored by the MSA and run by medical students are the University of Alberta branch of Shinerama, a program dedicated to raising money for Cystic Fibrosis research; a medical student choir; and *IATROS*, a student medical journal dedicated to publishing student articles and increasing communication between current students and alumni. Many social activities and sports events are also planned through the year.

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

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

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

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

# 93 Admission and Academic Regulations

## 93.1 Admission

See §§13 and 14 for general admission requirements to the University. See §15 for specific admission information for the DDS, Dental Hygiene, MD, and BSc in Medical Laboratory Science programs.

### 93.1.1 Combined Program for the Degrees of MD and PhD

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

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

Students interested in such a program may obtain further information from the Office of Research, Faculty of Medicine and Dentistry, 2J2.11 Walter C Mackenzie Health Sciences Centre.

## 93.2 Academic Standing and Graduation

### 93.2.1 DDS Degree

The program leading to the DDS degree is conducted in four years (1, 2, 3 and 4) under the direction of the Faculty committees (see §94.2).

- (1) No credit will be granted for courses completed in preprofessional years and no course exemptions will be allowed.
- (2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87 GFC Policy Manual.)
- (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
- (4) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.
- (5) On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.
- (6) **Reexaminations**
  - a. Students are allowed reexamination privileges only in courses that are failed.

- b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
- c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.
- d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
- e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
- f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
- g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
- h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
- i. Reexaminations in all years of the DDS program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty Academic Standing and Promotion Committee.
- j. Over the program reexamination privileges will not exceed five reexaminations. In DDS 509, 529, 545, 565 all components must be successfully completed and any reexaminations in a component of these courses will compose one of the five reexamination privileges.
- (7) Academic Standing: Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty Academic Standing and Promotion Committee.
- a. No student may proceed to any subsequent year of the DDS program and will be required to withdraw unless they have passed all courses for that academic year.
- b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.
- (8) Regulations Concerning Repetition of a Year because of Academic Failure
- a. No student will be allowed to repeat any year of the DDS program with the exception of fourth year students who may be granted the status of "Special Category Repeating Student". See below for details.
- b. Special Category Repeating Student: a student who fails to meet some requirements in the final-year of the program may be designated a Special Category repeating student. In order to be considered as a Special Category repeating student in fourth-year Dentistry, the student must
- have clinical deficiencies in no more than two clinical disciplines and have been advised that the deficiency could be corrected within one term of instruction; and
  - have successfully completed all written examinations in the DDS program.
- Further information regarding the Special Category repeating student may be obtained from the Department Office. Students repeating the final year are not eligible for awards.
- (9) Voluntary Withdrawal: A student wanting to temporarily withdraw registration from the DDS program is required to make written application to the Associate Dean of Dentistry, stating the reasons for withdrawal and the intended period of withdrawal. Readmission to the DDS program following voluntary withdrawal is based on the following:
- A review, by the Faculty, of the reasons for withdrawal and of the student's academic record.
  - Availability of a place, within quota, in the class to which the student seeks readmission. Priority is assigned in the following order:
    - Students who have met normal promotion requirements
    - Faculty-approved repeating students and students returning after voluntary withdrawal, in order of academic standing
    - The length of time the student interrupts studies leading to the DDS degree must not exceed two years in total.
- (10) Faculty Advisor: At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty.
- (11) All students registered in the Dentistry program are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association. This registration permits the practice of dentistry within the confines of the formal dental curriculum. Students in the DDS program are required to adhere to the professional code of ethics of the Alberta Dental Association (See §30.3.3 of the *GFC Policy Manual*).
- (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 at the University of Alberta. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B "e" antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B "e" antigen or Hepatitis B viral DNA is positive the offer of acceptance will be withdrawn and registration in the DDS program will not be completed (see §15.8.5).
- For those applicants who test negative to Hepatitis B surface antigen and are registered in the DDS program, Hepatitis B vaccination will be required. An exception will be made for those who are medically contraindicated or for those who have proof of Hepatitis B immunity. After vaccination, students will receive a test to determine if they have developed immunity. If they have not, further Hepatitis B vaccination scheduling will be determined by the University Health Centre. Those students who then fail to develop immunity will be counselled as to their potential risk status during training and future practice.
- At all times students will follow *Universal Precautions* when there is potential of exposure to human blood or body fluids.
- Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Dentistry. Those found to be positive will be counselled as to how to minimize the risk of transmission to patients and how to manage their own health. Testing of dental students may be performed a second time at a later stage of their program.
- Human Immunodeficiency Virus (HIV): Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common. Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

## 93.2.2 DDS Advanced Placement Program

The program leading to the DDS Advanced Placement is conducted in a minimum of two years (see §94.3, Years 3 and 4 of the DDS Program).

- No credit will be granted for courses completed prior to admission and no course exemptions will be allowed.
- The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87 *GFC Policy Manual*.)
- The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
- Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established with the Faculty and the University. Students must satisfactorily complete all components of all courses.
- On their official transcripts students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.

**(6) Reexaminations**

- a. Students are allowed reexamination privileges only in courses that are failed.
  - b. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail two or fewer courses. Students with more than two (2) failed courses in any academic year will not be allowed reexamination privileges.
  - c. The Department of Dentistry Academic Standing Committee and the Faculty Academic Standing and Promotion Committee may allow reexamination of a didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely clinical or in clinical components of courses that include both didactic and clinical components.
  - d. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
  - e. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
  - f. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the remediation/reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
  - g. A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
  - h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark.
  - i. Reexaminations in all both years of the Program must be approved first by the Department of Dentistry Academic Standing Committee and then by the Faculty Academic Standing and Promotion Committee.
- (7) Academic Standing:** Final decisions regarding academic standing and promotion to the next year or graduation are made by the Faculty Academic Standing and Promotion Committee.
- a. No student may proceed to next year of the Program and will be required to withdraw unless they have passed all courses for that academic year.
  - b. A student who fails more than two courses in any year of the program will be required to withdraw from the program.
  - c. Students in the DDS Advanced Placement Program are not eligible for awards.
- (8) Regulations Concerning Repetition of a Year because of Academic Failure:** Students in the DDS Advanced Placement Program will not be permitted to repeat a year.
- (9) Voluntary Withdrawal:** A student in the DDS Advanced Placement Program who chooses to withdraw, forfeits the position and will not be readmitted.
- (10) Faculty Advisor:** At the discretion of the Faculty, an advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and role of the advisor is determined by the Faculty.
- (11) All students registered in the DDS Advanced Placement Program** are required by provincial legislation to be registered in the Educational Register of the Alberta Dental Association. This registration permits the practice of dentistry within the confines of the formal dental curriculum. Students in the Program are required to adhere to the professional code of ethics of the Alberta Dental Association (See §30.3.3 of the *GFC Policy Manual*).
- (12) Hepatitis B:** Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B “e” antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B “e” or Hepatitis B viral DNA is positive the offer of acceptance will be withdrawn and registration in the DDS Advanced Placement Program will not be completed.

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

At all times students will follow *Universal Precautions* when there is potential of exposure to human blood or body fluids.

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

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

### 93.2.3 Dental Hygiene Diploma/Bachelor of Science (Dental Hygiene Specialization)

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

- (1) Alberta certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required.
- (2) Students entering the Dental Hygiene program may be granted credit for courses completed preprofessionally that are deemed by the Department Chair, in consultation with the course coordinator and the Chair of the Academic Standing Committee, to be demonstrably equivalent to courses for which credit is being sought. Credit is considered only when the student has achieved a grade of 6.0 or more in the qualifying course(s).  
Students carrying a reduced academic load exceeding a total of ★6 will not be eligible for awards.
- (3) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87 *GFC Policy Manual*.)
- (4) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another in accordance with the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades.
- (5) Students are advised at the beginning of each course and year of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established within the Faculty and the University. Students must satisfactorily complete all components of all courses.
- (6) 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.
- (7) **Reexaminations:** See §23.5.5.
  - a. Students are allowed reexamination privileges only in courses that are failed.
  - b. The Faculty Academic Standing and Promotion Committee must approve reexaminations for students who fail a maximum of two courses. Students who carry a reduced load will be allowed one reexamination.
  - c. The Academic Standing and Promotion Committee may allow reexamination of the didactic component of a course if a student fails the didactic component of a clinical course but passes the clinical portion. Reexamination is not permitted in courses that are entirely

- clinical or in clinical components of courses that include both didactic and clinical components.
- d. A student repeating a year is not allowed reexamination privileges in that year of the program.
  - e. If a reexamination is approved, satisfactory completion of a remedial program may be required by the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee before the student is permitted to take the reexamination.
  - f. Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
  - g. The weight of reexamination is at least that of the final examination, but may be more (at the discretion of the Program Director).
  - h. The reexamination mark (as in the case of a deferred mark) will replace the original final exam mark. Regardless of the mark awarded in a reexamination, the final course grade may not exceed 6. Reexamination results do not alter the student's class standing.
  - i. Any student who, after reexamination and/or evaluation fails to meet promotion/graduation requirements, is deemed to have failed the year.
  - j. A student who does not take a reexamination with the period time prescribed by the Faculty will not be allowed to continue in the program.
- (8) Reexamination Procedure
- a. The Faculty of Medicine and Dentistry Academic Standing and Promotion Committee will specify by course the reexaminations required of a failed student for the purposes of meeting promotion/graduation requirements.
  - b. First- and second-year Dental Hygiene students will take the reexamination as scheduled by June 30. Students in the third year will write after the end of the first term for first term courses, and by June 30 for second term and two term courses. Students in the fourth year will write reexaminations after Spring/Summer for Spring/Summer courses or at the end of first term for first term courses. Students in the Post Diploma Degree Completion Programs will write reexaminations after the applicable term. Students are advised to consult the Department.
- (9) Students are permitted to repeat first-year 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.
- (10) Students seeking readmission to the Dental Hygiene program have their application for readmission considered in competition with all other applicants by the Admissions Committee.
- (11) A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Faculty of Medicine and Dentistry Academic Standing and Promotion Committee acting on the advice of the Department concerned. A grade of at least 6.0 is required for Dental Hygiene courses. Students who carry a reduced academic load exceeding ★6 from the normal Fall/Winter course load are not eligible for awards in that period.
- (12) A Special Category repeating third-year (student in diploma program)
- a. has achieved a minimum GPA of 6.0 in the third-year program;
  - b. has clinical/practicum deficiencies in no more than two clinical courses and is advised that the deficiency could be corrected within a four-month period of instruction; and
  - c. has successfully completed all written examinations in the Dental Hygiene program.
- (13) Voluntary Withdrawal: A student wishing to temporarily withdraw registration in the Dental Hygiene Programs is required to make written application to the Dental Hygiene Program Director, stating the reasons for withdrawal. Readmission to the Dental Hygiene programs follow voluntary withdrawal will be based on the following:
- a. Review, by the Faculty of the reasons for withdrawal and the student's academic record;
  - b. Availability of a place, within quota, in the class to which the student is seeking readmission. Priority will be assigned in the following order:
    - i) Students who have met normal promotion requirements.
    - ii) Faculty approved repeating students and students returning after voluntary withdrawal, in order of academic standing.
- c. The length of time the student interrupts studies leading to the Dental Hygiene Diploma or Bachelor of Science (Dental Hygiene Specialization) programs must not exceed two years in total.
- (14) Faculty Advisor: At the discretion of the Faculty, a faculty advisor may be assigned to students having difficulty meeting promotion requirements. The method of assignment and the role of the faculty advisor is determined by the Faculty.
- (15) Hepatitis B: Current information indicates that there is a potential risk of transmission of Hepatitis B from practitioner to patients in the clinical dental setting. Therefore, applicants will be required to be tested for Hepatitis B surface antigen by the University Health Centre at the University of Alberta. Applicants who test positive for Hepatitis B surface antigen will be tested for Hepatitis B "e" antigen and Hepatitis B viral DNA to help determine infectivity risk. If either Hepatitis B "e" antigen or Hepatitis B viral DNA is positive, the offer of acceptance will be withdrawn and registration in the Dental Hygiene Program will not be completed. (See §§15.8.3 and 15.8.4).
- For those applicants who test negative for Hepatitis B surface antigen and are registered in the Dental Hygiene program, Hepatitis B vaccination will be required. An exception will be made for those who are medically contraindicated or those who have proof of Hepatitis B immunity. After vaccination, students will receive a test to determine if they have developed immunity. If they have not, further Hepatitis B vaccination scheduling will be determined by the University Health Centre. Those students who then fail to develop immunity will be counselled as to their potential risk status during training and future practice.
- At all times students will follow *Universal Precautions* when there is potential of exposure to human blood or body fluids.
- Hepatitis C: Hepatitis C antibody testing will be performed by the University Health Centre on all students accepted into Dental Hygiene. Those found to be positive will be counselled as to how to minimize the risk of transmission to patients and how to manage their own health.
- Human Immunodeficiency Virus (HIV): Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common. Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.
- Students admitted to the Dental Hygiene program are required to present a certificate of satisfactory medical examination from a physician of the University of Alberta Health Centre as part of the Faculty requirement.

## 93.2.4 MD Program

**Important note:** The DDS and MD programs have been revised effective September 1998. Continuing students should consult the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Dentistry for further information. However, academic standing and promotion regulations, as established here, apply to all students in the program.

The program leading to the MD degree is conducted in four Years (1, 2, 3 and 4), Years 1 and 2 are under the direction of a preclinical coordinating committee and Years 3 and 4 under the direction of a clinical coordinating committee. (See §94.5.)

- (1) No credit will be granted for courses completed in preprofessional years and no course exemptions will be allowed.
- (2) The Dean, or Supervisor acting on behalf of the Dean, may immediately deny assignment of a student to, withdraw a student from, or vary terms, conditions or site of practicum/clinical placement if the Dean or Supervisor has reasonable grounds to believe that this is necessary in order to protect the Public Interest. (See §23.8.2, Practicum Placements, Professional Practice and the Public Interest and §87 GFC Policy Manual.
- (3) The Council of the Faculty of Medicine and Dentistry approves the principle that the means of assessing a student's progress and determining a student's grades may vary from one course to another according to the nature of the course. Factors other than examination results may be used to a variable extent by instructors in determining grades, but students are informed at the beginning of the course how grades are to be determined.
- (4) Students are advised at the beginning of each course, and year of the attendance requirements of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty and the University. Students who are absent for

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

- (5) **Comprehensive Examinations:**
- At the end of second year, students take a preclinical comprehensive examination (denoted as MED 520) covering material presented in the first two years of the program.
  - At the end of fourth year, students take a comprehensive examination (denoted as MED 540) covering material presented in all four years of the program. Students must pass all clinical clerkship requirements in Years 3 and 4, excluding MED 540, before they will be allowed to take the comprehensive examination. The Academic Standing Committee will review eligibility for writing the comprehensive exam after students have met all clinical clerkship requirements, normally in late March.
  - Students must pass the comprehensive examination before being promoted or allowed to graduate.

(6) Students are not ranked or assigned a numeric grade, but are designated as having passed (received credit) or failed a course.

(7) **Reexaminations**

- Students are allowed reexamination privileges only in courses that are failed.
- A student repeating a year is not allowed reexamination privileges in that year.
- Students are advised that it is not possible to make a ruling regarding remediation or reexamination until all grades for a year are received and recorded.
- If a reexamination is approved, satisfactory completion of a remedial program may be required before the student is permitted to take the reexamination.
- A student who does not take a reexamination within the period of time prescribed by the Faculty will not be allowed to continue in the program.
- The reexamination mark will replace the original final exam mark (as in the case of a deferred mark).
- For continuing students who entered the program prior to September 1998, reexamination privileges will be granted only if a student has failed two or fewer courses with course weights less than or equal to 20% of the total course weight for that year of the program.
- For students entering the program in September 1998 and beyond, reexamination privileges will be granted only to students failing one course in any year of the program.
- Reexamination of MED 540 Comprehensive Examination: Students who fail the comprehensive examination will be granted a reexamination.

(8) **Academic Standing:** Final decisions regarding academic standing and promotion to the next year of graduation are made by the Faculty Academic Standing and Promotion Committee.

- No student may proceed to any subsequent year of the medical program and will be required to withdraw unless they have passed all courses for that academic year.
- Students who do not pass all Year 3 and 4 courses, excluding MED 540 (comprehensive exam) will not be allowed to write the comprehensive exam and will be required to withdraw.
- Continuing students who entered the program prior to September 1998, who have failed two or more courses with course weights more than or equal to 20% of the total course weights for that Year of the program will be required to withdraw.
- Students entering the MD program in September 1998 and beyond who fail more than one course in a Year of the program will be required to withdraw from the program.

(9) **Regulations Concerning Repetition of a year because of Academic Failure:**

- No student will be allowed to repeat Year 1 of the MD program. At the discretion of the Dean, students in Year 2, 3 or 4 may be allowed to repeat a failed year.
- A student repeating a year is not allowed reexamination privileges in that year of the program.
- No student is allowed to repeat more than one year of the MD program.

(10) **Voluntary Withdrawal:** A student wishing to temporarily withdraw registration from the MD program is required to make written application to the Associate Dean of Undergraduate Medical Education, stating the reasons for withdrawal and the intended period of absence. Readmission to the MD program following voluntary withdrawal will be based on the following:

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

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

(12) All students registered in the MD program are required by provincial legislation to be registered in the Educational Register of the Alberta College of Physicians and Surgeons. This registration permits the practice of medicine within the confines of the formal medicine curriculum. Students in the MD program are required to adhere to the professional code of ethics of the Alberta College of Physicians and Surgeons. (See §30.3.3 of the *GFC Policy Manual*).

(13) **Medical Examination**

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

To ensure, insofar as possible, both student and patient safety, the Faculty requires immunization against, or proof of immunity to, poliomyelitis, diphtheria, tetanus, measles, mumps, rubella, and hepatitis B. As well, varicella titre, hepatitis C and a two-step tuberculin skin test is required in the first year of the program and should be performed by the University of Alberta Health Centre.

For students in Medicine, where there is a greater potential for transmission of bloodborne pathogens from students to patients as a result of activities involved in their clinical experience in practice settings, the following procedures will apply:

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

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

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

At all times students will follow Universal Precautions when there is potential of exposure to human blood or body fluids.

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

**Human Immunodeficiency Virus (HIV):** Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common.



Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

### 93.2.5 BSc Program in Medical Laboratory Science

- (1) Promotion in the Medical Laboratory Science program depends on passing grades in all subjects of the previous year with a minimum GPA of 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 both technical and academic demands, the student must successfully complete the requirements of both components to receive a passing grade.

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

- (2) The quota for Phase I students is 26.
- (3) **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 medically contraindicated or for those individuals who have proof of prior vaccination and test positive for antibody to Hepatitis B surface antigen (anti-HBs). After vaccination, students will receive a second test to determine if they have converted to produce the appropriate antibody titre. If they have not converted they will receive a second vaccination and again be tested. Those students who then fail to convert will be counselled as their potential risk status during training and future practice.

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

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

**Human Immunodeficiency Virus (HIV):** Currently, the data relating to transmission of the human immunodeficiency virus (HIV) from a health care worker (HCW) to a patient in a health care setting is extremely limited, although transmission from patients to a HCW is more common.

Therefore, all students accepted into the Faculty of Medicine and Dentistry are encouraged to undergo HIV testing upon admission and at any time during their program when concerns about infection have arisen, but testing for HIV will not be made mandatory at this time.

## 93.3 Appeals and Grievances

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

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

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

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

## 94 Programs of Study

### 94.1 Protection of Persons in Care

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

### 94.2 DDS Degree

#### General Information

#### Curriculum

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

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

Senior students are assigned to the Dental Clinic and the Department of Dentistry at the University of Alberta Hospital. An experience in the Satellite Dental Clinic and the external hospitals is required in the final year of the program. Thus students are able to relate their field of health service to the science and art of preventing, treating, and alleviating disease.

See §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.

## Orientation

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

## Course Requirements

### Year 1

DMED 511	★3	5 weeks
DMED 512	★6	7 weeks
DMED 513	★6	6 weeks
DMED 514	★11	14 weeks
DDS 509	★12	10 weeks
DDS 510	★6	8 hr/wk
DDS 514	★2	0-0-60
DDS 518	★4	54-0-6
INT D 410	★3	0-32.5-0

### Year 2

DMED 521	★5	6 weeks
DMED 524	★9	11 weeks
DMED 525	★3	4 weeks
DDS 520	★3	4 hr/wk
DDS 522	★1	7 weeks
DDS 523	★6	7 weeks
DDS 524	★3	25-0-50
DDS 529	★25	20 weeks
DDS 532	★4	60-0-0
DDS 533	★2	30-0-0

### Year 3

DDS 541	★1	15-0-0
DDS 545	★52	40 weeks
DDS 547	★1	15-0-0
DDS 549	★3	25-0-45
DDS 555	★1	15-0-0

### Year 4

DDS 565	★50	30 weeks
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## 94.3 DDS Advanced Placement Program

### General Information

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

### Curriculum for Advanced Placement Students

Prior to entry into the program, students will be required to successfully complete a pre-clinical assessment course. This course will assess the students' ability to perform clinical procedures for the treatment of patients. If successful, these students will then enter the third year of the normal DDS program. First-year Advanced Placement students (third-year DDS program) will be assigned patients to treat in the University's Department of Dentistry clinics under the supervision of the clinical faculty.

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

## Course Requirements

### Year 1 (first year of the advanced placement program, regular third year DDS program)

DDS 541	★1	15-0-0
DDS 545	★52	40 weeks
DDS 547	★1	15-0-0
DDS 549	★3	25-0-45
DDS 555	★1	15-0-0

### Year 2 (second year of the advanced placement program, regular fourth year DDS program) (effective 2001-2002)

DDS 565 ★50 30 weeks

## 94.4 Dental Hygiene Diploma/Bachelor of Science (Dental Hygiene Specialization)

### General Information

The Department of Dentistry offers a Diploma in Dental Hygiene and a Bachelor of Science (Dental Hygiene Specialization). The Dental Hygiene Program enables students to acquire knowledge and develop skills 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.

A Bachelor of Science (Dental Hygiene Specialization) will prepare dental hygienists to participate productively in a health care system that emphasizes prevention, primary care, accountability, quality and cost effectiveness. The dental hygienist with a baccalaureate degree is a leader in developing and initiating oral health interventions that prevent and control oral disease and promote oral wellness, and in facilitating change itself. The ultimate goal of a baccalaureate program is to prepare students to contribute significantly to the improvement of oral health goals in current and future health care delivery systems by preparing well-qualified professionals with knowledge, skills, and awareness at the baccalaureate degree level.

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

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

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

In addition to the Diploma curriculum Year 1, 2 and 3, Bachelor of Science (Dental Hygiene Specialization) students will complete a fourth year. During the fourth year, students will learn the foundation of research, expand their knowledge in health promotion utilizing principles and theories of learning, health care organization theory and interdisciplinary ethics. In preparation for the leadership and management roles, leadership, management and decision-making skills are enhanced through didactic and dental hygiene clinical residency program. This program will provide students with a range of knowledge, human skills, attitudes and values essential for successful personal and professional growth. Additionally, the Residency program will provide students with advanced practice opportunities.

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

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

### Orientation

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

## Course Requirements

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

**Diploma in Dental Hygiene****Year 1**

ANAT 200	★3	39-0-0	D HYG 111	★2	26-0-12
BIOL 107	★3	39-0-39	ENGL 101	★6	78-0-0
CHEM 101	★3	39-13s-39	PSYCO 104	★3	39-0-0
CHEM 161	★3	39-0-39	SOC 100	★3	39-0-0
CHEM 163	★3	39-0-39			

**Year 2**

BIOCH 220	★3	39-0-0	D HYG 231	★1	14-0-0
D HYG 211	★5.5	84-0-0	D HYG 232	★1	14-0-0
D HYG 212	★6	0-0-180	D HYG 240	★2	28-0-6
D HYG 213	★3	0-90c-0	INT D 410	★3	0-32.5s-0
D HYG 215	★2	28-0-0	MMI 422	★2	28-0-9
D HYG 220	★3	28-0-26	OBIOL 202	★4.5	68-0-2
D HYG 222	★2	28-0-8	PHYSL 252	★6	78-0-0
D HYG 230	★1.5	20-0-0			

**Year 3**

D HYG 313	★16	0-471-0	D HYG 329	★2.5	0-75c-0
D HYG 316	★2.5	28-12-0	D HYG 340	★2	0-48-0
D HYG 317	★2.5	35-0-0	D HYG 386	★2	14-0-30
D HYG 321	★2	13-39c-0	PMCOL 300	★2	28-0-0
D HYG 322	★1	14-0-0	OBIOL 302	★3	45-0-0
D HYG 326	★2.5	35-0-0	OBIOL 305	★3	42-0-0

**Bachelor of Science (Dental Hygiene Specialization)**

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

**Year 4**

ANTHR 393 or SOC 382	★3	39-0-0			
D HYG 413	★7	0-15-240			
D HYG 417	★3	39-0-0			
D HYG 422	★2	26-0-0			
D HYG 440	★3	39-0-0			
HE ED 320 (or equivalent health promotion course)	★3	39-0-0			
REHAB 462 (or equivalent health-related research course)	★3	39-0-0			
SOC 210 (or equivalent statistics course)	★3	39-0-26			
One Option	★3	39-0-0			

The following program will be available for the Dental Hygiene Diploma class of 2000 and 2001.

**Year 4**

ANTHR 393 or SOC 382	★3	39-0-0			
D HYG 413	★7	0-15-240			
D HYG 417	★3	39-0-0			
D HYG 440	★3	39-0-0			
HE ED 320	★3	39-0-0			

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

A Bachelor of Science (Dental Hygiene Specialization) Post Diploma Degree Completion program will prepare diploma dental hygiene graduates to participate more fully and productively in a health care system that emphasizes prevention, primary care, accountability, quality and cost effectiveness. The dental hygienist with a baccalaureate degree is a leader in developing and initiating oral health interventions that prevent and control oral disease and promote oral wellness, and in facilitating change itself. The ultimate goal of a baccalaureate program is to prepare students to contribute significantly to the improvement of oral health goals in current and future health care delivery systems by preparing well-qualified professionals with knowledge, skills, and awareness at the baccalaureate degree level.

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

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

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

ANTHR 393 or SOC 382	★3	39-0-0			
D HYG 417	★3	39-0-0			
D HYG 440	★3	39-0-0			
HE ED 320 (or equivalent health promotion course)	★3	39-0-0			
Two Options	★6				

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

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

The degree completion program consists of the following courses:

ANTHR 393 or SOC 382	★3	39-0-0			
D HYG 417	★3	39-0-0			
D HYG 422	★2	26-0-0			
D HYG 440	★3	39-0-0			
HE ED 110 (or equivalent introductory health promotion course)	★3	39-0-0			
HE ED 320 (or equivalent health promotion course)	★3	39-0-0			
INT D 410	★3	0-32.5-0			
REHAB 462 (or equivalent health research course)	★3	39-0-0			
Options (2 courses at the 300- or 400-level)	★6	78-0-0			

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

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

ANTHR 393 or SOC 382	★3	39-0-0			
D HYG 417	★3	39-0-0			
D HYG 422	★2	26-0-0			
D HYG 440	★3	39-0-0			
HE ED 320 (or equivalent health promotion course)	★3	39-0-0			
REHAB 462 (or equivalent health research course)	★3	39-0-0			
SOC 210 (or equivalent statistics course)	★3	39-0-0			
Three options (two courses at the 300- or 400-level)	★9	117-0-0			

**94.5 MD Degree****General Information**

**Important note:** The MD program was revised effective September 1998. The following program listed in this edition of the University Calendar applies only to those students admitted from September 1998 and on. Continuing students in this program, who registered previous to 1998, are directed by the Calendar in place in the year in which they were admitted, or they should consult the Faculty of Medicine and Dentistry for further information.

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

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

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

## Orientation

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

## Course Requirements

### Year 1

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

### Year 2

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

### Year 3

- |                        |                        |
|------------------------|------------------------|
| 1. MED 532 (3 weeks)   | 7. OB GY 546 (6 weeks) |
| 2. ANAES 546 (1 week)  | 8. PAED 546 (6 weeks)  |
| 3. F MED 546 (4 weeks) | 9. PSYCI 546 (6 weeks) |
| 4. MED 545 (2 weeks)   | 10. SURG 546 (6 weeks) |
| 5. MED 546 (6 weeks)   | 11. MED 531 (36 hours) |
| 6. MED 547 (8 weeks)   |                        |

### Year 4

- |                        |                       |
|------------------------|-----------------------|
| 1. MED 556 (6 weeks)   | 6. SURG 556 (6 weeks) |
| 2. MED 557 (5 weeks)   | 7. MED 542 (3 weeks)  |
| 3. MED 558 (4 weeks)   | 8. MED 541 (36 hours) |
| 4. PAED 556 (3 weeks)  | 9. MED 540 (9 hours)  |
| 5. PSYCI 556 (3 weeks) |                       |

## 94.6 MD with Special Training in Research

This program is for students looking for in-depth exposure to research during medical school. (Each candidate must spend a minimum of 24 weeks [approximately two summers] of active involvement in scientific research and present oral and written reports to fulfil the requirements for the MD with Special Training in Research.) The program is monitored by the MD Research Committee, and each student is supervised by a staff member. Successful students are recognized on their transcripts and medical diplomas. For information, contact the Office of Research, Faculty of Medicine and Dentistry, 2J2.11 Walter C Mackenzie Health Sciences Centre.

## 94.7 Degree of BSc in Medical Laboratory Science

### General Information

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

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

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

### Orientation

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

## Program of Courses

### Phase I

- MMI 240 (★6)
- MLSCI 230 (★3)
- MLSCI 235 (★1)
- MLSCI 250 (★3)
- MLSCI 262 (★3)
- MLSCI 263 (★3)
- MLSCI 270 (★2)
- PHYSL (★6)
- Arts Option (★3)

### Phase II

#### – Clinical Rotation

- (See Note 1)
- BIOCH 203 (★3)
  - BIOCH 205 (★3)
  - MLSCI 320 (★3)
  - MLSCI 330 (★5)
  - MLSCI 340 (★5)
  - MLSCI 350 (★3)
  - MLSCI 360 (★5)
  - MLSCI 370 (★3)

### Phase III (See Note 2)

- ★12 chosen from MLSCI 430,460, 466, 475, 481 MMI 440, 426 or 427 or 405 or 415
- MLSCI 480 (★3)
- MLSCI 410 (★1)
- Project course: INT D 491 (★6) or 409 (★3) and Science option (★3) (see Note)
- INT D 410 (★3)
- Arts option (★3)
- Approved option (★3)

### Notes

- During the Phase II clinical rotation, students are assigned to hospital laboratories approved for this purpose by the Council of the Faculty of Medicine and Dentistry.
- ★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.

## 94.8 Honors in Research Program in Medical Laboratory Science

This program is for students looking for in-depth exposure to research during Medical Laboratory Science education. Students wanting to pursue this program will have a GPA of at least 7.5 in courses taken in the first and second phases of the program and will have completed STAT 141, 151, 337, or equivalent. Students must spend one summer (16 weeks) and complete a ★6 research course offered by the Division. All students are supervised by a staff member who has shown commitment to the project and to the financial support of the student for the summer months. The program is monitored by the MD Research Committee. Successful students receive recognition on their transcripts and degrees through the notation "With Honors in Research." For information, contact the Director, Division of Medical Laboratory Science, B-117 Clinical Sciences Building.

## 94.9 Degree of Bachelor of Medical Science

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

### First and Second Year

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

### Third and Fourth Year

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

### Provisions

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

## 94.10 Graduate Studies

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

## 94.11 Continuing Medical Education and Multimedia Production Services

Continuing Medical Education and Multimedia Production Services provides practising physicians with the opportunity to remain up-to-date in

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

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

## 94.12 Continuing Dentistry Education

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

## 94.13 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:

### 94.13.1 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

### 94.13.2 Certificate of Special Competence Programs

Cardiology  
Endocrinology  
Gastroenterology  
Geriatric Medicine

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

### 94.13.3 Accreditation Without Certification Programs

Critical Care Medicine  
Neonatology  
Palliative Care Medicine

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

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

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

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

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

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

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

## 95 Courses

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

Anaesthesia (ANAES)  
Anatomy (ANAT)  
Biochemistry (BIOCH)  
Biomedical Engineering (BME)  
Cell Biology (CELL)  
Dentistry (DDS)  
Dentistry (DENT)  
Dentistry/Medicine (DMED)  
Dental Hygiene (D HYG)  
Family Medicine (F MED)  
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)