100 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.)

100.1 Office of the Dean

Dean
DLJ Tyrrell

Associate Deans
P Davis  GW Raborn
G Goldsand  AH Walji
PA Gordon  JC Stone

Assistant Deans
CI Cheeseman  WA McBlain
PM Crockford  BR Stevenson

Faculty Service Officer
DM Gupta

Administrative Officers
P Stack  DM Whidden

100.2 Departments of the Faculty

100.2.1 Anaesthesia

Chair and Professor
BT Finucane

Professor
*AS Clanachan

Associate Professor
BA Finegan

Assistant Professor
RA Kearney

Clinical Professor
RC Gregg

Associate Clinical Professors
HL Carle  LR Hatch
MXX Coughlan  LJ Huston
LM Entwistle  RG Johnston
SM Ferreira  BE Marchak

Assistant Clinical Professors
RG Bergstrom  K Munn
BJ Bucyk  WJ Murtha
JG Cormack  SG Nadeau
DJ Cubitt  CJ Noble
DG Gamez  SA Olson
CR Guenther  YM Patel
AG Guest  GA Perez
IA Hopkins  BJ Petrie
LY Huang  H Reine
V Jensen  SL Scott
JT Lilley  RF Seal
BA Lyder  JD St Clair
TA Mayson  RJ Taggesell
JD McFarland  C Tang
DA Mercereau  DH Wiebe

Clinical Lecturers
LB Baron  B Knight
MH Berovich  JP Koller
G Cernohorsky  Al MacDonald
PG Ciar  M Martin
BPV Delbecq  K Martindale
JM Dupuis  JA Moir
JF Fairley  SJF O'Callaghan-Enright
A Gidwany  SJ Reid
SN Gupta  ZS Saleh
DA Hardy  CJ Schneider
R Hoegen  PD Wild
DT Jolly

Professors Emeriti
DF Cameron  JWR McIntyre

Professors
RC Bleackley  RA Rachubinski
DN Brindley  RO Ryan
*GE Cass  P Scott
RG Hodges  BD Sykes
MNG James  *DLJ Tyrrell
RN McElhinney  DE Vance
M Michalak  JH Weiner

Associate Professors
*L Fliegel  *RJ Read
*R Godbout  SA Rice
CFB Holmes  SM Rosenberg
BD Lemiire  CA Spencer
*CD Rasmussen  JC Stone

Assistant Professors
LB Agellon  JNM Glover
*L Berthiaume  MC Schultz

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

Faculty Service Officer
WT Wolodkio

Administrative Officer
GM Redmond

100.2.2 Biochemistry

Chair and Professor
VH Paetkau

Professors
RC Bleackley  *RA Rachubinski
DN Brindley  RO Ryan
*GE Cass  P Scott
RG Hodges  BD Sykes
MNG James  *DLJ Tyrrell
RN McElhinney  DE Vance
M Michalak  JH Weiner

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CFB Holmes  SM Rosenberg
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*CD Rasmussen  JC Stone

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*L Berthiaume  MC Schultz

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

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Administrative Officer
GM Redmond

100.2.3 Biomedical Engineering

Chair and Professor
PS Allen

Professors
BJ Andrews  *RV Rajotte
dj Griffiths  RE Snyder
ZJ Koles  *FX Wilkowski

Assistant Professor
A Kostov

Professors Emeriti
D Fenna  TR Overton

Adjunct Professors
*RH Hooper  JF Wolfardt
*SA Jackson

100.2.4 Cell Biology and Anatomy

Chair and Professor
RA Rachubinski

Professors
KM Bagnall  GR Buzzell
DA Begg  RB Campenot

Associate Professors
*WJ Gallin  *CD Rasmussen
TL Krukoff  DN Singh
P Melancon  BR Stevenson
M Pasdar  AH Walji

Assistant Professors
J Atchison  *D Pilgrim
L Berthiaume  E Shibuya
H Bobman  R Wozniak

Professors Emeriti
TS Leeson  RS Smith
K McFadden  HIA Zaw-Tun

100.2.5 Family Medicine

Chair and Professor
DG Moores

Professor
*P Jacobs

Associate Professors
NR Bell  MG Donoff
FR Brenneis  EH Krikke
R Brownoff  GR Spoooner
RG Chaytors  J Triscott

Assistant Professors
AJ Cave  PJ Klemka
M Cave  DS Mackey
*RL Fainsinger  S Murji
*NL Gibson  J O'Hara
S Hughes  I Steiner

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

Faculty Service Officer
WT Wolodkio

Administrative Officer
GM Redmond
### 100.2.6 Laboratory Medicine and Pathology

#### Chair and Professor
PA Gordon

#### Professors
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>LH Honore</td>
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<tr>
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<td>K Szele</td>
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<tr>
<td>CC Lin</td>
<td>RA Stinson</td>
</tr>
<tr>
<td>LE McGann</td>
<td>RW Yatscoff</td>
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#### Associate Professors
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>RW Coupland</td>
<td>RF Power</td>
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<td>HAA Idkio</td>
<td>DC Rayner</td>
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<tr>
<td>ES Johnson</td>
<td>AR Turner</td>
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#### Assistant Professors
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<th>Name</th>
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<tr>
<td>FJ Bamforth</td>
<td>J Hugh</td>
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<td>L Boshkov</td>
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#### Clinical Professors
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>TA Kasper</td>
<td>PKF Petrik</td>
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#### Associate Clinical Professors
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<thead>
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<th>Name</th>
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<tbody>
<tr>
<td>JM Danyluk</td>
<td>DF LeGati</td>
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<tr>
<td>DTP Dawson</td>
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#### Assistant Clinical Professors
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<td>DW Kinneburgh</td>
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<td>G Blakney</td>
<td>DR McLean</td>
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<td>LN Denmark</td>
<td>DM Morrison</td>
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<td>J Hannon</td>
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<td>TE Higa</td>
<td>C Prosser</td>
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<td>GH Hodgkinson</td>
<td>LMJ Russell</td>
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<td>GH Johnson</td>
<td>GO Wood</td>
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#### Clinical Lecturers
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<tbody>
<tr>
<td>B Bannoch</td>
<td>M Wenger</td>
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#### Professors Emeriti
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<tr>
<td>GO Bain</td>
<td>TK Shnftk</td>
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<td>BW Melike</td>
<td>RJ Swallow</td>
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#### Honorary Associate Professor
<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>WT McGaw</td>
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#### Administrative Officer
<table>
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<tr>
<td>JA Marken</td>
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#### 100.2.6.1 Medical Laboratory Science

#### Director and Professor
RA Stinson

#### Assistant Professor
PL Letendre

#### Lecturers
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>S Chamberlin</td>
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</tr>
<tr>
<td>M Fraser</td>
<td>MA Williams</td>
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<td>BA Chashi</td>
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#### Sessional Instructors
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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>T Chelick</td>
<td>I Simpson</td>
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<td>M Wenger</td>
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#### R Lane

#### Administrative Officer
JL McPhee

### 100.2.7 Medical Genetics

#### Chair and Professor
DW Cox

#### Professors
<table>
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<tbody>
<tr>
<td>*CC Lin</td>
<td>I MacDonald</td>
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#### Associate Professors
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<td>*SGV Bamforth</td>
<td>NJ Leonard</td>
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<td>*DG Gilchrist</td>
<td>M Somerville</td>
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<td>*P Ferreira</td>
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#### Assistant Professors
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<td>*J Bamforth</td>
<td>M Walter</td>
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<td>*H McDermid</td>
<td>R Wevrick</td>
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### 100.2.8 Medical Microbiology and Immunology

#### Chair and Professor
JR Smiley

#### Professors
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<tr>
<td>*DB Bellus</td>
<td>T Mesmann</td>
</tr>
<tr>
<td>*EA Fanning</td>
<td>LM Pilarski</td>
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#### Faculty Service Officer
O Szatan
100.2.9 Medicine

Chair and Professor
PW Armstrong

Associate Professor
*DL Saunders

Assistant Clinical Professor
*SK Aung

Administrative Officers
M Wohitebe

Adjunct Professors
DR Bundle
L Chui
N Dovichi
MC Finlayson

100.2.9.1 Cardiology

Acting Director and Professor
DP Humen

Professors
*PW Armstrong
C Basualdo
M Haraphongse

Associate Professors
JR Burton
DP Humen
KM Kavanagh
D Manyari

Assistant Professors
V Dzavik
*MR Jofres

Clinical Professor
PV Greenwood

Associate Clinical Professors
SS Gulamhusein
WKK Hu
Z Lakhani

Clinical Lecturers
*NS Brass
M Hoskinson

Professors Emeriti
RS Fraser

100.2.9.2 Clinical Hematology and Medical Oncology

Director and Professor
AR Turner

Professors
*JJ Akabutu
*AR Belch
*ED Bruea

Associate Professors
*ALA Fields
*A Janowska-Wiezorek
LM Larratt

Assistant Professors
*L Boshkov
*RL Fainsinger
*OP Jenkins
*M Palmer

Clinical Professors
*PA Gordon

Assistant Clinical Professor
*JL Hannon

Professor Emeritus
*RN MacDonald

100.2.9.3 Dermatology and Cutaneous Sciences

Acting Director and Associate Clinical Professor
A Krol

Associate Professor
AN Lin

Clinical Professors
J Brown
EH Schloss

Associate Clinical Professors
DW Groot
NA Jampolsky

Assistant Clinical Professors
VJ Kulak
GD Lycka

Clinical Lecturers
GE Searle

Adjunct Professors
T Enra
K Jimbow

100.2.9.4 Endocrinology and Metabolism

Director and Professor
J Ginsberg

Professors
PM Crockford
*RV Rajotte

Associate Professors
*DC Cumming
*S Harvey
*SE Jacobs
A Rabinovitch

Assistant Professors
WJ Tymchak

Clinical Lecturers
MS Akman

Professors Emeriti
GD Brown
DM Fawcett

Adjunct Professors
*DJ Pehowich

100.2.9.4 Gastroenterology

Director and Professor
RN Fedorak

Professors
*MT Clandinin

Associate Professors
VG Bain
*MI McBurney

Assistant Professors
*CJ Field

Clinical Professors
RJ Bailey

Associate Clinical Professor
CM Switzer

Assistant Clinical Professors
RD Cherry
*MS Millan
### 100.2.9.6 General Internal Medicine

**Director and Associate Professor**
NE Brown

**Professor**
CH Harley

**Associate Professors**
* AAC Yeung
  *G Ditchi
  * SC Houston

**Assistant Professors**
BW Fisher

**Clinical Professors**
WR Black
*GF MacDonald
WR St Clair

**Associate Clinical Professors**
KC Bowering
*WU Dickout
IA Ferguson

**Assistant Clinical Professors**
J Allan
*JS Archibald
A Cairns
DA Campbell
E Kretzul
MS Millan

**Clinical Lecturers**
A Bharmal
VR Chichak

**Professors Emeriti**
LM Anholt
JB Dossetor
AM Edwards
RN Eidem

### 100.2.9.7 Geriatric Medicine

**Director and Professor**
PN McCracken

**Associate Professor**
JE McElhaney

**Assistant Professors**
RM Ikuta
I Kiss
AG Juby

**Adjunct Professor**
AR Dobbs

### 100.2.9.8 Immunology and Nephrology

**Director and Professor**
PF Halloran

**Professors**
MK Dasgupta
CMF Kjellstrand
T Kovithavongs

**Associate Professors**
KB Betcher
PM Campbell
JA Bettcher

**Associate Clinical Professors**
IA Ferguson

**Assistant Professors**
EY Bissonnette
JA Crockett
M Duszyk

**Clinical Professors**
NRT Gibney

**Associate Clinical Professors**
IH Ahmed
JS Archibald
WU Dickout
MK Heule

**Assistant Clinical Professors**
IA Ferguson

**Adjunct Professors**
DA Emans

**Professors Emeriti**
FA Herbert

### 100.2.9.9 Infectious Diseases

**Director and Associate Professor**
LJ Miedzinski

**Professors**
EA Fanning
G Goldsand

**Associate Professors**
SC Houston
JK Preiksaitis

**Assistant Professor**
*MA Joffe

**Clinical Professor**
B Romanowski

**Associate Clinical Professor**
JR Waters

**Assistant Clinical Professors**
E Blondel-Hill
LR Boychuk

### 100.2.9.10 Neurology

**Director and Professor**
MH Brooke

**Professors**
WR Martin
MG Elleker
DS Fulton

**Associate Professors**
MG Elieker
S Weisz

**Assistant Professor**
M Javidan

**Clinical Professor**
AF Wilson

**Associate Clinical Professors**
E Starreveld

**Assistant Clinical Professors**
RN Roberts
TE Roberts

**Clinical Lecturer**
B Marynowski

### 100.2.9.11 Pulmonary Medicine

**Director and Professor**
SFP Man

**Professors**
AD Befus
*NN Finer

**Associate Professors**
NE Brown

**Assistant Professors**
EY Bissonnette
JA Crockett

**Clinical Professors**
NRT Gibney

**Associate Clinical Professors**
IH Ahmed
JS Archibald

**Assistant Clinical Professors**
IA Ferguson

**Adjunct Professors**
DA Emans

**Professors Emeriti**
FA Herbert

### 100.2.9.12 Rheumatology

**Director and Professor**
P Davis

**Professor**
AS Russell

**Associate Professors**
SL Aaron

**Associate Clinical Professors**
AA Fitzgerald

**Assistant Clinical Professors**
PL Chiu

**Clinical Lecturer**
A Yan

### 100.2.10 Obstetrics and Gynaecology

**Chair and Professor**
BF Mitchell

**Professors**
DC Cumming
*LN Honore

**Associate Professors**
VA Capstick
NN Demianczuk

**Assistant Professors**
R Chari

**Clinical Lecturers**
A Yan

**Professors Emeriti**
FA Herbert
Clinical Professors
JJ Boulton
JJ Boyd
LG Everson

Associate Clinical Professors
CES Burnett
CP Fung
SJ Gemius
KE Pearse

Assistant Clinical Professors
GL Black
RC Black
KL Boldt
M Bow
R Chua
VR Gallipas
TP Gleason
S Gross

Clinical Lecturers
RJ Brown
MJO Coe
A Lee
C Linton

Professors Emeriti
RP Beck

100.2.11 Oncology

Chair and Professor
CE Cass

100.2.11.1 Experimental Oncology
Acting Director and Associate Professor
D Murray

Professors
*AR Belch
CE Cass

Associate Professors
AJ Franko
*PE Grundy
*WP Gati
R Godbout
*JC Hugh
WA McBlain
D Murray

Assistant Professors
RA Britten
*JR MacKay

Lecturer
R. Mirzayans

Associate Professor
MC Paterson

Professor Emeritus
*ARP Paterson

100.2.11.2 Medical Oncology
Director and Professor
AR Belch

Professor
*JJ Akabutu

Associate Professors
ALA Fields
*PE Grundy
*A Janowska-Wieczorek
*LM Larratt
*DW Morrish

Assistant Professors
*SJ Desai

Adjunct Professor
GD MacLean

100.2.11.3 Medical Physics
Director and Associate Professor
HR Hooger

Associate Professor
RS Slimboda

Assistant Professor
DM Robinson

Lecturers
W Ansbacher
GC Field

Clinical Lecturer
SL Connors

100.2.11.4 Palliative Medicine
Director and Professor
ED Bruera

Associate Professors
CE Cumming
MD Handman

Assistant Professors
RL Fainsinger
M Hundleby
CP Jenkins

Adjunct Professor
C Ripamonti

Lecturer
RA Sela

100.2.11.5 Radiation Oncology
Director and Associate Professor
RG Pearcey

Professors
*PS Allen
AW Lees

Associate Professors
*DS Fulton
MC Palmer

Assistant Professor
N Jha
BE Krause

Lecturer
TS Nijjar

100.2.11.6 Surgical Oncology

Acting Director and Associate Professor
*A Scheppansky

Professors
*PA Gordon

Associate Professors
*JC Hugh

Clinical Professor
*JDS McKean

Assistant Clinical Professor
*EE Wiens

Assistant Clinical Professor
*GJ Lavoie

100.2.12 Ophthalmology

Chair and Professor
IM MacDonald

Professor
*BW Mielke

Associate Professor
GT Drummond

Assistant Professors
RJ Casey

Clinical Professors
RA Morgan

Associate Clinical Professors
J Buski

Assistant Clinical Professors
D Climenhaga

Clinical Lecturers
KR Hennig
ME Phillips
Professors Emeriti
WG Pearce HT Wyatt

100.2.13 Oral Health Sciences

Acting Chair and Professor
GW Raborn

Professors
CG Baker GA Deane RE Donnelly FM Eggert HE ElSadrawy KH Gibb KE Glover KW Hinkelman LW Kline PM Major

Associate Professors
A Kaburda I Kuc DJ Pehowich

Assistant Professor
E Edgington

Clinical Professors
DPK Cheung M Grace RD Haryett CE Hawrish BL Kuzyk

Clinical Associate Professors
N Chalk LC Chan A Eastwood B Gitzel D Gotaas KR Hesse BG Kindrachuk R Labahn BA Linke DJ MacDougall KE Manning WR Matther E McIntyre ME Mickleborough

Clinical Assistant Professors
DH Bédard BS Bennett EA Burgess H Campbell CG Caruk S Cobban S Compton R Cox RRA Crouhte J Doberstein R Earner OK Fialka-Eshenko DBC Hayashi M Howell E Jang E Krause E Kucey C Layton VF Lee J Lockau

Clinical Instructors

Lecturer
C Boyko

Professors Emeriti
BK Anora RV Blackmore


100.2.14 Paediatrics

Acting Chair and Professor
F Harley

Professors
JJ Akabutu RL Collins-Nakai *DW Cox P Etches EW Gauk FL Harley

Associate Professors
*PA Penkoske *DM Olson EW Gauk HF Pabst

Professors Emeriti
WG Pearce HT Wyatt

100.2.14.1 Haematology and Oncology

Acting Chair and Professor
P Grundy

Professors
JJ Akabutu RL Collins-Nakai

Assistant Professors
*JDesai BA Wilson

Professors Emeriti
GJ Conradi EE McCoy NF Duncan J Godel

Administrative Officer
G Langer

Adjunct Professors
K Horne R Eamer

100.2.14.2 Infectious Diseases

Acting Chair and Professor
W Vaudry

Assistant Professor
RPA Larke

Professors Emeriti
GJ Conradi EE McCoy NF Duncan J Godel
100.2.14.3 Medical Genetics

Director and Associate Professor
P Ferreira

Professor
*CC Lin

Associate Professor
S Bamforth

Assistant Professors
*DM Gilchrist NJ Leonard

Clinical Professor
*WG Pearce

Assistant Clinical Professor
*FJ Bamforth

100.2.14.4 Neonatology

Director and Associate Professor
P Byrne

Professor
PC Etches

Associate Professors
A Peliowski JE Van Aerde

Assistant Professors
EZ Phillips AJ Tierney

100.2.14.5 Paediatric Cardiology

Director and Associate Professor
JD Dyck

Professors
RL Collins-Nakai PM Olley

Associate Professor
JY Coe

Assistant Professors
M Kantoch MA Robertson

Associate Clinical Professor
*PA Perroske

Professor Emeritus
NF Duncan

100.2.14.6 Paediatric Intensive Care

Director and Associate Professor
A Conradi

Assistant Professor
A deCaen

Assistant Clinical Professor
A Joffe

100.2.15 Pharmacology

Chair and Professor
IL Martin

Professors
TM Allen SMJ Dunn

*GB Baker T Gordon

AS Claracchan *GD Lopaschuk

DA Cook MW Radomska

WF Dryden PA Smith

Associate Professors
WF Colmers AAC Yeung

WP Gali

Assistant Professors
AN Bateson AMW Tse

BA Biekewicz-Vollrath FWY Tse

*R Schulz

Professors Emeriti
GB Frank ARP Paterson

Faculty Service Officer
EG Hunter

Administrative Officer
JC Deuel

100.2.16 Physiology

Chair and Professor
EJ Sanders

Professors
Cl Cheeseman KG Pearson

S Harvey A Prochazka

SE Jacobs RB Stein

*LW Kline JD Young

*DM Olson

Associate Professors
SC Barton AKC Ho

CG Benishin E Karpinski

*DT Finegood

Assistant Professors
JR Casey JJ Greer

*ST Davidge *RZ Lewanczuk

*M Duszyk

Professors Emeriti
EO Hohn PKT Pang

KJ Hutchinson M Schachter

Administrative Officer
OM Findlay

100.2.17 Psychiatry

Chair and Professor
RC Bland

Honorary Professor
El Picard

Professors
GB Baker WE Piper

AJ Greenshaw

Associate Professors
JH Brooks SC Newman

GG Grier PH Silverstone

GS Hnatko BK Sinha

J Metelitsa

Assistant Professors
NJ Coupland J LeMelledo

J Fang

Clinical Professors
M Blackman PI Steinberg

P Flor-Henry BF Turner

A Gordon LB Wameke

S Levin HM Wojcicki

PM Segal

Associate Clinical Professors
LM Adams RE Hibbard

HM Barker JL Kolada

JE Beach E Lobo

CA Blashko P Mills

AB Brenness J O'Kelly

AM Carroll KF McKenna

KM Collins HM Piktel

PE Copus JS Rosie

NP Costigan BS Sanderman

RJ Dyck TJ Snyder

J Eustace CM Tapper

KD Gendemann GD Watson

DW Grover CM Yalhno

CA Hapchyn

Assistant Clinical Professors
B Bishop DW Meakins

O Cadsky B Mirle

PS Chue F O’Croinin

JH Dewart JW Osinchuk

R Dreib R Scott

DJ Gill MB Parsons

DR Ginter L Pawluk

DRT Guinhawa SE Purdon

RA Gerke JK Rodgers

AS Joyce EM Schwab

L Kagan R Scott

S Khetarpal D Shih

JB Lefrusrd LH Studer

RC Lundeen MGJ Swanson

R Maitra RP Taubner

S Matthews L Trichard

WA McCay M Tweddle

M McCulm

Clinical Lecturers
J Carr KL Kindekis

P Carr K Lawless

J Cark AW McIntyre

J Chu S Mitchell

P Chokka ST Mylczak

PS Chue SP Nigam

A Dawrant L Phillips

SC Duncan Y Shapiro

FM Fogarty L Schuster

A Garbett V Singh

KK Gibban L Smit

D Goodnough DL Spaner

N Hanon D Spence

A Hotar Ljiic

AJ Howel PJ White

ND John PJ Williams

V Jordan DYW Wong

Professors Emeriti
WG Dewhurel JW Urschel

P Hays TE Weckowicz

G Hopkins KA Yonge

* denotes current post in other Faculty
100.2.18 Public Health Sciences

Chair and Professor
TW Noseworthy

Professors
KS Bay  P Jacobs
TL Guidotti  L Laing
D Hailey  CL Soskelin
CB Hazlett  DR Wilson
SE Hrudy

Clinical Professor
JM Howell

Associate Clinical Professor
JWF Cowell

Lecturers
AP Beauline  EW Hall
J Church  G Jangri

Professors Emeriti
CM Mellick
TA McPherson

100.2.19 Radiology and Diagnostic Imaging

Chair and Professor
AIB McEwan

Professor
PB Russell

Associate Professor
SA Jackson

Assistant Professors
LJ Filipose  JR Mercer

Lecturer
BH Long

Clinical Professor
JDR Miller

100.2.20 Surgery

Chair and Professor
SM Hamilton

Administrative Officer
TM Bridgeman

Undergraduate Teaching and Research Coordinator
PM Craig

100.2.20.1 Cardiothoracic Surgery

Director and Clinical Professor
A Koshal

Professor
*R Yatscoff

Associate Professor
*W Chin

Clinical Professors
ET Geftland  PA Penkosek

Associate Clinical Professors
DL Modry  IM Rebeika
SS Nakai

Assistant Clinical Professors
CJ McNamee  JC Mullen

Professor Emeritus
JC Callaghan

100.2.20.2 General Surgery

Acting Director and Professor
GL Warnock

Professors
KL Bowes  OG Thurston
SM Hamilton  GL Warnock
NM Kneteman

Associate Professor
C de Gara

Assistant Professors
S Issa  GE O'Keefe

Clinical Professors
JE Anselmo  DW Jirsch
RE Fraser  S Kilam
RA Hallgren

Associate Clinical Professors
DO Adams  JF Mossey
PD Davey  AW Procyshyn
RM Hackett  HL Stewart
BW Johnson  WM Struck
GM Lees  TW Theman
WJ Mackie  EE Wiens
Assistant Clinical Professors
HR Chyczij EK Schmidt
SF Cox J Siegenberg
MH Friedman AF Trautman
MA Meier MH van Wijngaarden
WJ Orrom

Clinical Lecturers
D Callahan O Heisler
KD Dabbs JD Matheson
KE Goh A Prakash

Professors Emeriti
WS Anderson GW Scott
S Kling HTG Williams
RAL Macbeth WW Yakimets

100.2.20.3 Neurosurgery
Director and Associate Clinical Professor
JM Findlay

Professors
*KJ Hutchison *J Tulip

Clinical Professors
PBR Allen KC Petruk
JDS McKeen

Associate Clinical Professor
KE Aronyk

Assistant Clinical Professors
RW Broad DE Steinke
WJ O’Callaghan

Professor Emeritus
BK Weir

100.2.20.4 Orthopaedic Surgery
Director and Clinical Professor
MJ Moreau

Professor
DC Reid

Clinical Professors
RM Glasgow DWC Johnston
JR Huckell

Associate Clinical Professors
GW Cameron WM Rigal
JB McIver GG Russell

Assistant Clinical Professors
GD Arnett RW Broad DE Steinke
PR Boucher DJ O’Callaghan
D Dick TH Greidanus
TH Greidanus DJ Makar
JH Harvey JP McMillan
LE Hunka GJ O’Connor
KW James KJ Russell

Clinical Lecturers
RA Balyk RA Balyk FB Kortbeek
JG Cinats DD Otto

Research Associate
V Raso

Adjunct Professor
LA Davis

100.2.20.5 Otolaryngology
Director and Clinical Professor
DJ Oldring

Assistant Professor
H Seikaly

Clinical Professor
WH Kudryk

Associate Clinical Professor
CS Carter

Assistant Clinical Professors
JC DiToppa JD Keohane

Clinical Lecturers
OM Bykowski JTK Eohane
LT Diduch JA Kostluk
CA Elliott

100.2.20.6 Plastic Surgery
Director and Clinical Professor
GW Lobay

Professor
*KL McGann

Associate Professors
A Ghahary EE Tredget

Clinical Professors
GL Moya GH Wilkes

Assistant Clinical Professors
DD Campbell T Hayashi
MJ Giuffre HJ Shimizu
Assistant Clinical Professors
*W Chin *J Mullen
*C R Guenther *W Murtha
*S Marcushamer *DE Stollery
*M Meier

Clinical Lecturers
*D Callahan *D Matheson

Clinical Lecturers

100.3.4 Emergency Medicine
Director and Associate Professor
BR Holroyd
Associate Clinical Professors
MA Cherniwchan DL Shragge
GE Cummings TD Sossnowski
Assistant Clinical Professors
D Bond *LF McGonigle
HA Borkent C Neal
MJ Boulanger WR Patton
RS Brooks DC Perry
JJ Brown IP Steiner
T Compagna JC Taylor
D Mackey AF Walker

Adjunct Associate Clinical Professor
I Vicas

100.3.5 Health Sciences Laboratory Animal Services
Director and Professor
DH Neil
Faculty Service Officers
TF Bayans PN Nation

100.3.6 Neuroscience
Director and Professor
*WF Dryden
Professors
*BJ Andrews *KG Pearson
*GB Baker *RE Peter
*MH Brooke *WD Pierce
*RB Campenot *A Prochazka
*SMJ Dunn *PA Smith
*WF Epling *RB Stein
*T Gordon *RC Urtasun
*MM Hodge *D Wahlsen
*S Kumar

Associate Professors
*WF Colmers *TL Krukoff
*MRW Dawson *TP Martin
*JI Goldberg *MT Martin-Iverson
*AJ Greenshaw *NC Milos
*JH Jhamandas

Assistant Professors
*AH Bateson *A Tse
*JJ Greer *F Tse
*A Kingstone *J Yang
*D Treil

Clinical Professor
*JDR Miller

Associate Clinical Professor
*KC Petruk

Adjunct Professors
*CHM Beck *I Kiss
*E Boberg *BK Mitchell
*AR Dobbs *AH Putnam Rochet
*GR Holland

100.3.8 Physical Medicine and Rehabilitation Medicine
Director and Associate Professor
DJ Carroll
Professor
RM Feldman
Associate Professor
LA Bellamy
Assistant Professors
RS Burnham DE McLean

100.3.9 Studies in Medical Education/Media Services
Director and Professor
*DA Cook
Associate Director and Professor
*C Harley
Professor
*T0 Maguire
Associate Professor
EN Skakun

Educational Associates
*SL Aaron (Medicine–Rheumatology)
*FR Brenneis (Family Medicine)
*DN Brindley (Biochemistry)
*NE Brown (Medicine)
*VA Capstick (Obstetrics and Gynecology)
*CJ Cheeseman (Assistant Dean, Admissions, Physiology)
*J Crocket (Medicine)
*PM Croxford (Assistant Dean–Clinical Education, Medicine–Endocrinology)
*P Davis (Associate Dean, Continuing Education, Medicine–Rheumatology)
*MG Donoff (Family Medicine)
*JE Ellsworth (Paediatrics)
*BW Fisher (Medicine–General Internal Medicine)
*G Goldsand (Associate Dean–PGME–Infectious Diseases)
*N Kassam (Medicine)
*W Patton (Emergency Medicine)
*B Reed (University Teaching Services)
*DW Spady (Paediatrics)
*BR Stevenson (Assistant Dean–Student Affairs, Cell Biology and Anatomy)
*AR Turner (Medicine–Clinical Hematology)
*DJ Tyrrell (Dean of Medicine, Medical Microbiology and Immunology)
*AH Wali (Associate Dean–UGME–Cell Biology and Anatomy)

Research Associates
*D Blackmore (Medicine Council of Canada)
*R Muzyka (Technological Consultant)
*GL Warkock (Surgery)
*G Zeschuk (Technological Consultant)

100.3.10 Surgical Medical Research Institute
Director and Professor
*RV Rajotte

100.4 Additional Members of Faculty Council
President and Vice-Chair
R Fraser, PhD

Representatives
JN Campbell (Faculty of Science)
RS Smith (Acting Vice-President Research and External Affairs)
RE Moskalik (Dean of Pharmacy)
MJ Wood (Dean of Nursing)
LA Oltzauer (Registrar, College of Physicians and Surgeons)
RA Burns (Alberta Medical Association)
J Buckingham (Medical Librarian)
J Turc (Alberta Cancer Board)
M Spence (Alberta Heritage Foundation for Medical Research)
ALA Fields (Cross Cancer Institute)

In addition, there are ten student representatives: two from the MLS program and eight from the MD program.

Registrar of the University
BJ Silzer, MEd

101 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 degrees were awarded in 1925.

Dental education was instituted at the University of Alberta in 1917 in the School of Dentistry under the Faculty of Medicine. The first full degree program was offered in 1923, and the first class graduated in 1927. The
School became the Faculty of Dentistry in 1944. Dental Auxiliary training was
instituted in 1961. In 1962 the School of Dental Hygiene came into
being. A program of graduate studies was formally approved in 1962.
In 1996 the Faculty of Dentistry was merged with the Faculty of Medicine
to become the Faculty of Medicine and Oral Health Sciences.
The Faculty of Medicine and Oral Health Sciences conducts the following
programs:

Medical Programs:
1. A fully accredited four-year program leading to the degree of Doctor of
   Medicine. At least two pre-medical years at university are required
   before admission to this program.
2. A program whereby students in the MD program who fulfill specified
   requirements in research may receive the degree of Doctor of Medicine
   "with Honors in Research."
3. A four-year program leading to the degree of Bachelor of Science in
   Medical Laboratory Science, which may be entered at the matriculation
   level.
4. A program whereby students in Medical Laboratory Science who fulfill
   specified requirements in research may receive the degree of Bachelor
   of Science in Medical Laboratory Science "with Honors in Research."
5. A program whereby students in the MD Program who fulfill 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 Health Service Administration or the Diploma in Health
   Service Administration.
7. Programs leading to eligibility for specialist qualification by the Royal
   College of Physicians and Surgeons of Canada are offered in
   cooperation with affiliated hospitals in all clinical specialties.
8. An extensive program of continuing medical education for physicians
   practising in Northern Alberta.
Details of programs of study are outlined in §103.

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

101.1 Department of Oral Health Sciences Objectives

1. To provide an academic and intellectual milieu in a University setting
   that facilitates all aspects of education and research in dentistry and
   allied health and scientific fields by
   a. attracting, selecting, and motivating the most qualified academic
      and non-academic staff; and
   b. creating a University environment that emphasizes the quality of
      life for staff and students.
2. To contribute to the advancement of knowledge in dentistry and allied
   fields by doing research, publishing research papers, and communicating
   and interacting with
   a. other health sciences and other disciplines of the University in
      order to promote comprehensive health care;
   b. the dental profession, dental auxiliaries, auxiliary-training programs,
      and the community in order to promote oral health; and
   c. basic and clinical science organizations and granting agencies in
      order to promote disciplinary and interdisciplinary research.
3. To graduate competent undergraduate dentistry students and dental
   hygiene, 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, behaviour and social sciences,
      dental clinical sciences, community and preventive dentistry, hospital
      dentistry, and practice management; and 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 educational program that allows for the smooth
      transition from graduation to practice and which ensures that
      students are competent to practise in an efficient and responsible
      manner; 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 the needs of the patient.

101.2 Affiliated Hospitals and Institutions

101.2.1 Affiliated Hospitals

The Faculty of Medicine and Oral Health Sciences, University of Alberta,
has formal affiliation agreements with each of the major active treatment
hospitals in the city: University of Alberta Hospitals; Royal Alexandra Hospital;
Misericorda Hospital; Edmonton Grey Nuns Hospital; Glenrose Rehabilitation
Hospital; and the Cross Cancer Institute. The Faculty is located in the
Mackenzie Health Sciences Centre which includes the University of
Alberta Hospitals as well as the Heritage Medical Research, Medical
Sciences, and Clinical Sciences Buildings.

By special arrangement and affiliation agreements, some undergraduate
and/or postgraduate training is also conducted at the Alberta Hospitals,
Edmonton and Ponoka (Psychiatry); as well as St Mary’s Hospital, Camrose;
Red Deer Regional Hospital; Sturgeon General Hospital, St Albert; Queen
Elizabeth II Hospital, Grande Prairie; and other hospitals and institutions as
the opportunity arises.

101.2.2 Family Medicine Rural Teaching Sites

The Department of Family Medicine has an educational relationship
with 14 of the 17 Regional Health Authorities. Currently, over 38 rural
communities participate in undergraduate and postgraduate educational
initiatives. For an up-to-date listing of the rural sites please contact Ruth
Vander Woude at 492-0582.

101.2.3 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.

101.2.4 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
Misericorda Community Health Centres and the Royal Alexandra Hospital.
These “Family Medicine Centres” provide medical and other health science
students with an opportunity to participate in the provision of comprehensive
and continuing health care to a representative section of the community
under the supervision of members of the Department of Family Medicine.

101.2.5 Alberta Primary Care Research Unit—
University of Alberta Branch

The Alberta Primary Care Research Unit (APCRU) is comprised of two
complementary branches within the Faculties of Medicine, one at the
University of Alberta, and 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 of
the main focuses of the APCRU is community practice-based research.
This is facilitated through the ongoing special relationship between the APCRU and the Alberta Family Practice Research Network (AFPRN) of the College of Family Physicians of Canada (Alberta Chapter). The three APCRU-research themes are (1) clinical prevention, (2) education/information dissemination, and (3) health services utilization and outcomes.

101.2.6 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 to facilitate the research activities of research investigators, fellows, and graduate students in the Faculty of Medicine and Oral Health Sciences in the field of experimental surgery and medicine. Facilities include operating rooms for large and small animals, a biochemistry and histology laboratory, as well as the Medicine/Dentistry Electron Microscopy Unit which is located in the Institute. In addition to research activities, the SMRI provides major teaching facilities for surgical residents in training, core training (surgical skills) for postgraduate Year 1 and postgraduate Year 2 students, 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.

101.3 Registration and Licensing

101.3.1 DDS Degree

The Department of Oral Health Sciences of the University of Alberta is accredited by the Canadian Dental Association and thereby recognized by the American Dental Association Council of Accreditation. Graduates in dentistry from the University of Alberta may register in the province of Alberta upon payment of a licensing fee without further examination. Regulations regarding the practice of dentistry in any of the other provinces in Canada may be obtained by writing to the dental registrar of that province:

Alberta

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

British Columbia

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

Manitoba

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

New Brunswick

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

Newfoundland

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

Nova Scotia

Nova Scotia Dental Association
12-9880 Spring Garden Road
Halifax, Nova Scotia B3H 1Y1

Ontario

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

Prince Edward Island

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

Quebec

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

Saskatchewan

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

Senior students of approved dental schools are required to write the National Dental Examining Board examinations during their final year. Successful completion of these examinations are required for licensure. Graduates are also eligible to write licensing examinations in most of the states in the United States and the examinations of the National Board of Dental Examiners of the American Dental Association. The Doctor of Dental Surgery (DDS) degree and the Doctor of Dental Medicine (DMD) degree (granted by some Canadian and United States universities) are equivalent degrees.

101.3.2 Dental Hygiene Diploma

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

Alberta

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

British Columbia

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

Manitoba

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

New Brunswick

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

Newfoundland

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

Nova Scotia

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

Ontario

College of Dental Hygienists of Ontario
69 Bloor Street East
Suite 360
Toronto, Ontario M4W 1A9

Prince Edward Island

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

Quebec

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

Saskatchewan

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

101.3.3 Registration to Practise

The Registrar of the Alberta Dental Association and/or The Alberta Dental Hygienists Association may refuse to issue a license and/or registration certificate to practise dentistry and/or dental hygiene to any applicant possessing a criminal record. If you have concerns in this area, please contact the Registrar, Alberta Dental Association and/or Alberta Dental Hygienists Association.
101.4 Finance

101.4.1 DDS Degree

An estimated budget for dental students

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

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees</td>
<td>$5,485</td>
</tr>
<tr>
<td>Books</td>
<td>$1,200</td>
</tr>
<tr>
<td>Dental Kits</td>
<td>6,800</td>
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<tr>
<td>Dental Students Association</td>
<td>100</td>
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<tr>
<td></td>
<td>Year 3</td>
</tr>
<tr>
<td></td>
<td>Year 4</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>$5,485</td>
</tr>
<tr>
<td>Books</td>
<td>$3,885</td>
</tr>
<tr>
<td>Dental Kits (Instruments)</td>
<td>200</td>
</tr>
<tr>
<td>Dental Students Association</td>
<td>100</td>
</tr>
<tr>
<td>NBDE (American) Examinations</td>
<td>70</td>
</tr>
<tr>
<td>NDEB (Canadian) Examinations</td>
<td>1,665</td>
</tr>
</tbody>
</table>

101.4.2 Dental Hygiene Diploma

Approximate Costs

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees</td>
<td>$4,395</td>
</tr>
<tr>
<td>Books</td>
<td>$2,795</td>
</tr>
<tr>
<td>Dental Hygiene Kits</td>
<td>3,500</td>
</tr>
<tr>
<td>Membership Fees</td>
<td>100</td>
</tr>
</tbody>
</table>

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

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

101.4.3 MD Degree

Information on fees charged to students in the MD and MSc programs are 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, Cardio-Pulmonary 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 forms of financial assistance available to medical students are in the Awards section of this Calendar, or by contacting the MD Program Office, Admissions and Undergraduate Medical Education, 2-45 Medical Sciences Building (phone 492-6350).

101.5 Medical Society Memberships

The Medical Students’ Association is the officially recognized organization of medical students. It provides many social, informative, and cultural activities for medical students and sponsors several important community projects. It is authorized to collect a membership fee from each student. The Association provides the following annual awards: the Outstanding Teacher Awards presented to one teacher for excellence as an educator in each of the Phase I, II, and III programs; the Shaner Award presented to a graduating student for exceptional contributions to the work of the Association; the Mackenzie Award presented to a graduating student who is judged to be most proficient in clinical skills; and the Fried Award presented to the Phase III student who has demonstrated exceptional clinical aptitudes in Paediatrics. Some of the projects currently sponsored by the MSA and run by medical students are: the University of Alberta branch of Shinerama, a program dedicated to raising money for Cystic Fibrosis research; the Courtyard Concert Series, a noon-hour classical concert series for University Hospital patients (featuring a grand piano donated by the MSA); a medical student choir, and IATROS, a student medical journal dedicated to publication of student articles and to increasing communications between present students and alumni. Many social activities and sports events are also planned throughout 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.

102 Admission and Academic Regulations

102.1 Admission

General admission requirements to the University are set out in §§13 and 14. Specific admission information for the DDS, DENTAL HYGIENE, MD, and BSc in Medical Laboratory Science programs are set out in §15.9.

102.1.1 Combined Program for the Degrees of MD and PhD

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

Students in the first year of the MD program are invited to apply to the Combined Program. If acceptable to the appropriate department, to the Faculty of Medicine and Oral Health Sciences, and to the Faculty of Graduate Studies and Research, the student would be admitted to the PhD program. Normally, upon completion of two years of the MD program, the student would then register in the PhD program. The time needed to complete the requirements for the PhD would depend upon the previous training of the applicant and the nature of the research. Upon completion of the PhD program the student would reenter the Faculty of Medicine and Oral Health Sciences and complete the requirements for the MD degree.

Students interested in such a program may obtain further information from the Office of Research, Faculty of Medicine and Oral Health Sciences, 263 WC Mackenzie Health Sciences Centre.

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

102.2 Academic Standing and Graduation

102.2.1 DDS Degree

(1) Students entering the DDS program may be granted credits for courses completed preprofessionally which are deemed by the Department Chair, in consultation with the course coordinator and the Chair of the Academic Standing Committee, to be demonstrably equivalent with courses for which credit is being sought. Credit will be considered only when the student achieves a grade of 6.0 or more in the qualifying course(s). Students carrying a course load which has been reduced by more than 10 from the normal Winter Session course load will not be eligible for awards in that session. In the first and second year of the Dentistry Program all course requirements in the year must be met in order to be eligible for promotion. A third-year student may, at the discretion of Council, be promoted with a course deficiency when all of the following apply:
   a. the deficiency is in a single clinical course;
   b. there is no provision for remediation and reevaluation in the course;
   c. the student’s overall GPA for the year is 6.0 or better.

A student promoted with a deficiency will be required to meet all normal course requirements in the fourth year of the Program in order to be eligible for graduation.

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

(3) Course grades of 3.0, 2.0, and 1.0 are failing grades. A grade of 4.0 is a conditional pass and will permit a student to meet promotion/graduation when grades of 4.0 are achieved in critical requirements. Students will be required to pass both the practical and theoretical examinations of any course having a practical and theoretical component.

(4) Reexaminations: See §23.5.5.
(5) A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Academic Standing Committee acting on the advice of the Discipline concerned. A minimum grade of 6.0 will be required for course credit. A failed student in the final year of the program may be designated a Special Category repeating student. Further information regarding the Special Category repeating student may be obtained from the Department Office. Students who carry a reduced academic load exceeding 10 from the normal Winter Session course load will not be eligible for awards in that session.

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

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

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

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

b. has clinical deficiencies in no more than two clinical courses and has been advised that the deficiency could be corrected within a four-month period of instruction; and

c. has successfully completed all written examinations in the DDS program.

(9) Voluntary Withdrawal: A student wishing to withdraw registration in the DDS program on a temporary basis may make written application to the Associate Dean of Oral Health Sciences, stating the reasons for withdrawal and the intended period of withdrawal. Readmission to the DDS program following voluntary withdrawal will be based on the following:

a. a review, by the Advisory Council, 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 DDS degree must not exceed two years in total.

(10) Faculty Advisor: At the discretion of the Department Council, an advisor may be assigned to students who are having difficulty meeting promotion requirements. The method of assignment and role of the advisor shall be determined from time to time by the Department Council.

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

102.2.2 Dental Hygiene Diploma

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

(1) Alberta certification in CPR (Cardiopulmonary Resuscitation) at the Basic Rescuer Level is required and a course will be offered during orientation week for students entering first year dental hygiene. A recertification course will be offered during orientation week for students entering second year dental hygiene. Exemption will be granted to those students presenting a valid CPR Basic Rescuer Level certificate prior to orientation week.

(2) Students entering the Dental Hygiene program may be granted credits for courses completed preprofessionally which are deemed by the Department Chair, in consultation with the course coordinator and the Chair of the Academic Standing Committee, to be demonstrably equivalent with courses for which credit is being sought. Credit will be considered only when the student achieves a grade of 6.0 or more in the qualifying course(s).

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

(3) Recommendations for promotion and graduation will be on the basis of a grade of at least 4.0 in each subject and a GPA of at least 5.0.

(4) Reexaminations: See §23.5.5.

(5) Students will be 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 will be required by wait one year before continuing in the program. Repeating students will be considered for awards.

(6) Students seeking readmission to the Dental Hygiene program will have their application for reexamination considered in competition with all other applicants by the Admissions Committee.

(7) A failed student who repeats the failed year may retain credit for passed courses, other than laboratory and clinical courses, only at the discretion of the Academic Standing Committee acting on the advice of the Department Council. A minimum grade of 6.0 is required for Dental Hygiene courses. A failed student in the final year of the program may be designated a Special Category repeating student and may complete grade requirements for the completion of the Intersession term. Students who carry a reduced academic load exceeding 6 from the normal Winter Session course load will not be eligible for awards in that session.

(8) A Special Category repeating second-year dental hygiene student

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

b. has clinical deficiencies in no more than two clinical courses and is advised that the deficiency could be corrected within a four-month period of instruction; and

c. has successfully completed all written examinations in the Dental Hygiene program.

(9) Faculty Advisor: At the discretion of the Academic Standing Committee, a faculty advisor may be assigned to students who are having difficulty in meeting promotion requirements. The method of assignment and the role of the faculty advisor shall be determined from time to time by the Council.

102.2.3 MD Program

The four-year program leading to the MD degree is conducted in four phases (I, II, IIIA and IIIB), each under the direction of an interdepartmental coordinating committee. (See §103.3.) Final decisions regarding academic standing and promotion to the next phase are made by the Faculty Academic Standings and Promotions Committee.

(1) The Council of the Faculty of Medicine and Oral Health Sciences approves the principle that the means of assessing a student’s progress and determining a student’s grades may vary from one department 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 but students will be informed at the commencement of the course how grades are to be determined.

(2) Students are advised at the beginning of each course, rotation, elective, selective and Phase of the procedures to be used in their evaluation, the determination and reporting of their grades, and the standards required by the Faculty. Students are also advised of the procedures for appeal established within the Faculty and the University.

(3) Students are awarded a grade point average (GPA) at the conclusion of Phases I, II, IIIA and IIIB of the program on the basis of their performance in course examinations held during the phase. In addition, students are assessed on the basis of a final comprehensive at the end of Phase IIIB. Furthermore, at the end of the MD program (at the end of Phase IIIB), a cumulative Phase III GPA is calculated which combines the Phase IIIA GPA with the marks from the Phase IIIB student internship program and the Phase IIIB comprehensive exam.

Students with a grade point average of less than 5.0 at the end of any one of Phases I, II, IIIA or IIIB will be required to withdraw from the MD program.

(4) Reexaminations

a. Reexaminations of Courses: Students with a grade point average (GPA) of less than 5.0 are not eligible for reexaminations. If a student has a GPA greater than or equal to 5.0, but has failed two or less courses with course weights less than or equal to 20% of the total course weights for the Phase, then the student will be allowed reexamination privileges in those courses. Their reexamination mark (as does a deferred mark) will replace the original final exam mark. Students are advised that it is not possible to make a ruling regarding reexamination until all grades for a term are recorded.

b. Reexamination of Comprehensive Examinations: A student awarded reexamination privileges of the comprehensive examination will be required to obtain a revised GPA of at least 5.5 before being promoted.
c. If a reexamination is approved, satisfactory completion of a remedial program may be required before being permitted to take the reexamination.
d. A student neglecting to take a reexamination within the prescribed period defined in the Calendar (§102.3.3) will not be allowed to continue in the program.
e. A student repeating a year is not allowed reexamination privileges.
f. The Faculty Office will contact the student regarding reexamination privileges and fees. The usual time for reexaminations is the end of July. All other regulations pertaining to reexaminations are as per University policy. See §23.5.5 of the University Calendar for further information.
g. Requirement for Remedial Work:
   1) Students must satisfactorily complete theoretical, laboratory and clinical components of all courses within the MD program to obtain credit for those courses. Students failing to satisfactorily complete any of the above components will be required to repeat the courses in question or do remedials in those courses. 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.
   2) A student will be assigned a failing grade and be required to withdraw from the MD program prior to the completion of a course, rotation, or phase, if the student is performing at a level whereby patient safety is being jeopardized, as determined by the rotation coordinator and/or the Associate Dean, Undergraduate Medical Education. Such a student will not be readmitted into the MD program expect at the sole discretion of the Dean or the Associate Dean, Undergraduate Medical Education.

No student will be allowed to proceed to any subsequent Phase of the medical program unless all the work of the previous Phase (I, II, IIIA or IIIB) is successfully completed.

No student will be allowed to repeat the Phase I of the MD program except in special circumstances approved by the Faculty.

A student permitted to repeat a failed Phase (I or II) who fails to obtain a satisfactory record (no failing courses) in the first term of that Phase will be required to withdraw from the MD program.

A student who is repeating a Phase will be required to withdraw from the MD program unless a grade point average of at least 5.5 is obtained on the work of the repeated Phase, and a passing grade achieved in all courses in that phase.

A student who has failed to meet promotional standards twice at any time in the MD program will be required to withdraw, and will not be readmitted into the MD program except at the sole discretion of the Dean or the Associate Dean, Undergraduate Medical Education.

102.2.4 BSc Program in Medical Laboratory Science

1) Promotion in the Medical Laboratory Science program is dependent on passing grades in all subjects of the previous year with a minimum grade point average of 5.0 as well as the following requirements:
   Phase I
   Each laboratory instructor will assess the competence in communication, comprehension, and technical skills of each student at four different times throughout the academic year. These assessments will be documented as a written evaluation which the student will be asked to sign. At the end of the Phase, the instructors will 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 will be permitted to proceed into Phase II on probation. Students in Phase II who are on probation will be required to 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 will be 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 in order to receive a passing grade. The competence in communication, comprehension, and technical skills of each student will be assessed by written evaluations in each discipline of each Medical Laboratory Science course, At least five evaluations are completed for each course by practising technologists/scientists. One of these evaluations is a composite completed at the end of the course and is worth 50% of the final technical assessment. The others are weighted equally and are worth 50%. Students must pass the technical component of each course with a mark of 50% or better. Students who do not achieve this in any one course will be required to repeat satisfactorily a remedial period of training in that course, or may be required to withdraw. A student will be allowed remedial training in only one course. Students who have entered Phase II on probation and who fail to achieve a mark of 50% in the technical component of any one course 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 will be required to 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.

102.3 Appeals and Grievances

Students may appeal academic standing decisions within the Faculty. There are informal ways to appeal as well as strict deadlines for submission of formal appeals. Students may obtain the Faculty’s complete appeal regulations from the Undergraduate Medical Education office located in 2-45 Medical Sciences Building. Under certain conditions, an unsuccessful appeal within 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 of the Calendar, which describes the informal process for addressing concerns about grades. There is also a formal process within 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, which are available in the Faculty’s Undergraduate Medical Education Office located in 2-45 Medical Sciences Building.

102.4 Professional Standards for Students in Oral Health Sciences

The University Code of Student Behaviour (§26) describes a range of non-academic and academic offences which are deemed unacceptable and for which a student may be penalized. Additionally, the Department of Oral Health Sciences has filed with the Campus Law Review Committee a list of offences which represent gross professional misconduct. The Department of Oral Health Sciences will act to initiate the most severe penalty permissible within the Code where a student has been found to be guilty of gross professional misconduct.

103 Programs of Study

103.1 DDS Degree

103.1.1 General Information

Curriculum
The Department of Oral Health Sciences offers a four-year (11 term) program of study 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, the humanities, and social sciences.

In the dental curriculum, lecture and laboratory instruction in such fundamental subjects as Anatomy, Bacteriology, General Pathology, Physiology and Medicine are offered by the respective departments. The lectures, laboratories, seminars, and clinics offered by the Department of Oral Health Sciences relate and integrate these fundamental disciplines with the knowledge, skills, judgement, and performance required of the dental practitioner.

In addition to bedside and operating instruction in medicine and surgery, the senior students are assigned to the Dental Department and the Department of General Anaesthetics at the University Hospital. An experience in the General Practice Clinic, the Satellite Dental Clinic, and the Geriatric Youville Hospital is a requirement in the final year of the program. Thus students are afforded an opportunity to relate their field of health service to the science and art of preventing, curing, or alleviating disease in general.

Also required is a 3 course in interdisciplinary studies which has been approved by the Department and is normally scheduled in the evening.
103.1.2 Course Requirements

The numbers following a course name which appear in columns below represent the number of hours spent in lectures, clinics, and laboratories.

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103.2 Dental Hygiene Diploma

### 103.2.1 General Information

The Department of Oral Health Sciences offers a Diploma in Dental Hygiene. The objective of the Dental Hygiene Program is to facilitate the student’s acquisition of knowledge and development of skills and attitudes so that they will be able to 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 who 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 stain 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 counseling and community dental health program planning, implementation, and evaluation.

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

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

The Dental Hygiene Program is approved by the Council on Dental Education of the Canadian Dental Association and of the American Dental Association. Successful students in the Dental Hygiene Program are encouraged to write the National Board Dental Hygiene Examinations of the American Dental Association.

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

### 103.2.2 Course Requirements

The numbers following a course name which appear in columns below represent the number of hours spent in lectures, clinics, and laboratories.

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<th>Term 1</th>
<th>Term 2</th>
<th>Intersession</th>
</tr>
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<tbody>
<tr>
<td>D HYG 313</td>
<td>16</td>
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<td>D HYG 316</td>
<td>2</td>
<td>14-0-0</td>
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<tr>
<td>D HYG 317</td>
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<td>14-0-0</td>
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<tr>
<td>D HYG 320</td>
<td>2</td>
<td>23-0-16</td>
</tr>
</tbody>
</table>
103.3 MD Degree

103.3.1 General Information

The four-year program leading to the MD degree is conducted in four phases (I, II, IIIA and IIIB), each under the direction of an interdepartmental coordinating committee.

Phase I

An academic year (35 weeks) of the program in the basic medical sciences with an introduction to clinical medicine. Coordinator: Dr BR Stevenson.

Phase II

An academic year (35 weeks) of the program in clinical and related basic medical sciences taught in a body systems format within the context of the mechanisms and pathophysiology of human disease. Coordinator: Dr S Aaron.

Phase IIIA

An academic term (13 weeks, autumn term) of the program in more advanced clinical and related basic medical sciences taught in a body systems format within the context of the mechanisms and pathophysiology of human disease.

Phase IIIB

Phase IIIB is defined as the students' internship component that commences when Phase IIIA ends, and lasts until the completion of the fourth year of the MD program. The Phase IIIB program includes a student internship of approximately 50 weeks, an elective program of approximately 12 weeks and a selective program of approximately 4 weeks developed by each individual student in consultation with the Undergraduate Medical Education Office. A wide range of approved elective and selective programs in all aspects of medical science, medical practice, and related areas is available.

During Phase IIIB each student is entitled to a four-week holiday period.

103.3.2 Course Requirements

<table>
<thead>
<tr>
<th>Phase I (Year 1)</th>
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</thead>
<tbody>
<tr>
<td>1. ANAT 418 (233 hours)</td>
<td>7. MED 413 (36 hours)</td>
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<td></td>
</tr>
<tr>
<td>2. BIOCH 412 (96 hours)</td>
<td>8. MED 414 (34 hours)</td>
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</tr>
<tr>
<td>3. CO ME 411 (27 hours)</td>
<td>9. MED 417 (24 hours)</td>
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<tr>
<td>4. IMMUN 411 (32 hours)</td>
<td>10. PATH 411 (41 hours)</td>
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<tr>
<td>5. MED 410 (7 hours)</td>
<td>11. PMCOL 411 (16 hours)</td>
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<tr>
<td>6. MED 411 (95 hours)</td>
<td>12. PHYSYL 411 (136 hours)</td>
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<tr>
<th>Phase II (Year 2)</th>
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</thead>
<tbody>
<tr>
<td>1. CO ME 421 (18 hours)</td>
<td>9. OPTHY 421 (24 hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. MED 422 (103 hours)</td>
<td>10. PAED 421 (36 hours)</td>
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<tr>
<td>3. MED 423 (119 hours)</td>
<td>11. PATH 421 (60 hours)</td>
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<tr>
<td>4. MED 425 (38 hours)</td>
<td>12. PMCOL 421 (80 hours)</td>
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<tr>
<td>5. MED 426 (29 hours)</td>
<td>13. PSYC 421 (34 hours)</td>
<td></td>
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<tr>
<td>6. MED 427 (12 hours)</td>
<td>14. SURG 421 (80 hours)</td>
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<tr>
<td>7. MMI 421 (138 hours)</td>
<td>15. SURG 422 (28 hours)</td>
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<td>8. NEURO 421 (105 hours)</td>
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<tr>
<th>Phase III (Years 3 and 4)</th>
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</thead>
<tbody>
<tr>
<td>1. ANAES 446 (2 weeks)</td>
<td>13. MED 447 (16 weeks)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. CO ME 431 (13 hours)</td>
<td>14. OB GY 431 (85 hours)</td>
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<td></td>
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<tr>
<td>3. CO ME 432 (13 hours)</td>
<td>15. OB GY 446 (6 weeks)</td>
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<tr>
<td>4. F MED 446 (4 weeks)</td>
<td>16. ONCOL 431 (24 hours)</td>
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<tr>
<td>5. EMER 431 (19 hours)</td>
<td>17. PAED 431 (22 hours)</td>
<td></td>
<td></td>
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<tr>
<td>6. MED 431 (16 hours)</td>
<td>18. PAED 446 (6 weeks)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. MED 432 (73 hours)</td>
<td>19. PMCOL 433 (23 hours)</td>
<td></td>
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<tr>
<td>8. MED 433 (16 hours)</td>
<td>20. PSYCI 446 (8 weeks)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. MED 441 (36 hours)</td>
<td>21. RADDI 446 (2 weeks)</td>
<td></td>
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<tr>
<td>10. MED 442 (56 hours)</td>
<td>22. SURG 431 (16 hours)</td>
<td></td>
<td></td>
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<tr>
<td>11. MED 445 (2 weeks)</td>
<td>23. SURG 446 (10 weeks)</td>
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<tr>
<td>12. MED 446 (10 weeks)</td>
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103.4 Honors in Research Program in Medicine

This program is designed for the student who is looking for in-depth exposure to research during medical school. (Each candidate is required to spend a minimum of 24 to 26 weeks of active involvement in a research project in order to fulfill the requirements of the Honors in Research program.) There is an application procedure, final report requirement, and a minimal GPA stipulation. The program is monitored by the Medical Sciences Committee and each student is supervised by a staff member. Successful students receive recognition on their transcripts and medical diplomas. For information please contact the Office of Research, Faculty of Medicine and Oral Health Sciences, 2J2 WC Mackenzie HSC.

103.5 The Degree of BSc in Medical Laboratory Science

103.5.1 General Information

The Faculty of Medicine and Oral Health Sciences offers an undergraduate degree program in Medical Laboratory Science designed to meet the demand for 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 Bachelor of Science in Medical Laboratory Science is a versatile degree that allows access to a multitude of advanced degrees and programs.

The preprofessional year, and Phase I and III of the program are normal university years. Phase II, beginning approximately July 1, consists of a period of clinical hospital laboratory training under the direct supervision of the Faculty of Medicine and Oral Health Sciences. If students are successful in their clinical phase, they are eligible to write certification examinations with the Canadian Society of Laboratory Technologists.

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

103.5.2 Program of Courses

<table>
<thead>
<tr>
<th>Phase I</th>
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<tbody>
<tr>
<td>1. BIOC 203 (*3)</td>
<td>5. MLSCI 260 (*6)</td>
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<tr>
<td>2. BIOC 205 (*3)</td>
<td>6. MLSCI 250 (*3)</td>
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<tr>
<td>3. MLSCI 235 (*1)</td>
<td>7. PHYSYL 162 (*6)</td>
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<tr>
<td>4. MLSCI 270 (*2)</td>
<td>8. Arts Option (*3)</td>
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<thead>
<tr>
<th>Phase II – Clinical Rotation (See Note 1)</th>
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<tbody>
<tr>
<td>1. BIOCH 203 (*3)</td>
<td>5. MLSCI 240 (*5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. BIOCH 205 (*3)</td>
<td>6. MLSCI 350 (*5)</td>
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<tr>
<td>3. MLSCI 320 (*3)</td>
<td>7. MLSCI 360 (*6)</td>
<td></td>
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<tr>
<td>4. MLSCI 330 (*5)</td>
<td>8. MLSCI 370 (*3)</td>
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<thead>
<tr>
<th>Phase III (See Note 2)</th>
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</thead>
<tbody>
<tr>
<td>1. *12 chosen from:</td>
<td>4. Project course: INT D 491 (*6) or 409</td>
<td></td>
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</tr>
<tr>
<td>2. MLSCI 430, 460, 465, 475,</td>
<td>5. Arts option (*6)</td>
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<td></td>
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<tr>
<td>3. MCCI 427 or 427 or 405</td>
<td>6. Approved option (*3)</td>
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<tr>
<td>4. MCCI 440</td>
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Notes:

(1) During the Phase II clinical rotation, students will be assigned to hospital laboratories approved for this purpose by the Council of the Faculty of Medicine.
(2) *1 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.

103.6 Honors in Research Program in Medical Laboratory Science

This program is designed for the student who is looking for in-depth exposure to research during Medical Laboratory Science education. Students wishing to pursue this program will have a minimum GPA of 7.5 in courses taken in the first and second phases of the program, and will have completed STATS 114, 151, 237, or equivalent. Students are required to spend one summer (16 weeks) plus complete a *6 research course offered by the Division. All students will be under the supervision of a staff member who has shown a commitment to the project and to the financial support of the student for the summer months. The program is monitored by the PhD in Medical Sciences Committee. Successful students would receive recognition on their transcripts and degrees through the notation, “With Honors in Research.” For information, please contact the Director, Division of Medical Laboratory Science, B-117 Clinical Sciences Building.
103.7 The Degree of Bachelor of Medical Science

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

First year
Two Science Courses
Three Arts or Science Courses

Second year
Two Science Courses
Three Arts or Science Courses

Third year
First year (Phase I) MD Program

Fourth year
Second year (Phase II) MD Program

Provided that

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

103.8 Graduate Studies

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

103.9 Continuing Medical Education

The objective of the Division of Continuing Medical Education is to provide the practising physician with the opportunity to remain up-to-date in knowledge, skills and attitudes. The Division organizes a variety of postgraduate learning events for family practitioners and specialists. These include one- to three-day conferences in Edmonton or some resort area, regional conferences in outlying hospitals of central and northern Alberta, a telephone conference program to physicians in many smaller communities, and 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 co-sponsors teaching events with a variety of para-medical organizations if they appear to be relevant to the 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 regarding these programs should be directed to the Assistant Dean Director, Continuing Medical Education, 2J3 WC Mackenzie Health Sciences Centre, University of Alberta, Edmonton, T6G 2R7.

103.10 Continuing Oral Health Sciences Education

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

103.11 Postgraduate Medical Education

Postgraduate medical training is required as a component of achieving eligibility for licensure in Canada. Programs are operated by the University of Alberta in accordance with 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

Family Medicine

Postgraduate training accredited by the Royal College of Physicians and Surgeons of Canada include the following:

103.11.1 Primary Certification Programs

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

103.11.2 Certificate of Special Competence Programs

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

103.11.3 Accreditation Without Certification Programs

Critical Care Medicine
Neonatology

Inquiries regarding these programs should be directed to the Associate Dean, Postgraduate Medical Education, 2J2.18 WC Mackenzie Health Sciences Centre, University of Alberta, T6G 2R7.

For those students seeking more academic careers, there are opportunities for combined clinical and MSc/PhD training through the Clinical Investigators Program. Further information may be obtained from the Office of Research, 2J2.11 WC Mackenzie Health Sciences Centre, University of Alberta, T6G 2R7.

All postgraduate medical trainees are registered as graduate students in the Division of Postgraduate Medical Education of the Faculty of Medicine and Oral Health Sciences and are required to 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
may be obtained from the Canadian Resident Matching Service, #802, 151 Slater Street, Ottawa, Ontario K1P 5H3. Certificate of Special Competence and Accreditation Without Certification Programs require prior training in a Primary Certification Program. All international medical graduates will be required to pass the Evaluating Examination and Part I of the Qualifying Examination of the Medical Council of Canada. Information may be obtained from the Medical Council of Canada, Box 8234, Station T, Ottawa, Ontario 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 having completed 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 can be obtained from the College of Physicians and Surgeons of Alberta, #900, 10180-101 Street, Edmonton, Alberta T5J 4P8.

104 Courses

Faculty of Medicine and Oral Health Sciences courses are listed in \$211, Course Listings, under the following subject headings:

- Anaesthesia (ANAES)
- Cell Biology and Anatomy (ANAT)
- Biomedical Engineering (BME)
- Biochemistry (BIOCH)
- Clinical Medicine (CM)
- Community Health (CO ME)
- Dentistry (DENT)
- Dental Hygiene (D HYG)
- Electrical Engineering/Applied Sciences in Medicine (EE BE)
- Family Medicine (F MED)
- Health Services Administration and Community Medicine (H S A)
- 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 (OPTH)
- Oral Biology (OBIOL)
- Paediatrics (PAED)
- Pathology (PATH)
- Pharmacology (PMCOL)
- Physics/Applied Sciences in Medicine (PH BE)
- Physiology (PHYSL)
- Postgraduate Medical Education (PGME)
- Psychiatry (PSYCI)
- Public Health Sciences (PHS)
- Radiology and Diagnostic Imaging (RADDI)
- Surgery (SURG)