

# COLLEGE OF DENTISTRY

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## FACULTY AND ACADEMIC STAFF

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M. Atkinson, Vice-President (Academic)  
A. J. Whitworth, Vice-President (Finance and Resources)  
M. E. Corcoran, Vice-President (Research)  
M. D. Evered, Associate Vice-President (Academic)  
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C. G. Baker, Dean of Dentistry  
D. A. Kolbinson, Acting Associate Dean of Dentistry  
J. K. Sutherland, Assistant Dean of Dentistry (Clinical Affairs)  
R. G. Kachanoski, Dean of Graduate Studies and Research  
F. Winter, Director of Libraries  
G. Barnhart, University Secretary  
K. M. Smith, Registrar

## DEPARTMENT OF BIOLOGICAL, DIAGNOSTIC AND SURGICAL SCIENCES

### Professor and Head

K. Komiyama

### Professors

C. G. Baker, R. M. Devon, J. N. Hoover,  
D. A. Kolbinson, D. T. Lanigan, R. D. Oles  
(on leave)

### Associate Professors

M. A. Copete, F. Otero-Cagide,  
G. V. Packota, J. E. Stakiw

### Assistant Professor

E. Fernandez

### Clinical Associate Professors\*

D. Amundrud, R. R. Anholt, B. L. Carley,  
A. Finningley

### Clinical Instructors\*

D. Hildebrand, B. Kilduff,  
N. Moe, R. Zachow

### Associate Members

M. D. Evered, G. Guttman, E. G. Walker,  
T. W. Wilson

## DEPARTMENT OF CLINICAL AND COMMUNITY DENTISTRY

### Professor and Head

M. B. Moulding

### Professors

P. A. Konchak, J. K. Sutherland,  
P. E. Tepitsky

### Associate Professors

D. W. Tyler, J. J. Tynan

### Assistant Professors

J. Monteith, C. Nagle, M. Teekasingh,  
M. Tynan

### Clinical Professor\*

G.H. Peacock

### Clinical Associate Professors\*

R. I. Hamilton, D. Hastings, D. Johnson,  
D. Saganski

### Clinical Assistant Professors\*

K. I. Hamilton, M. Hammer, G. Kost,  
P. Lalli, L. Piecowye, K. Verma, B. E. White

### Clinical Lecturers\*

C. Bowerman, K. Gallagher, L. A. Grant,  
M. W. Gryba, C. W. Haunsperger, S. Jen,  
P. Louie, D. Meier, D. J. Plosz,  
C.J. Roberts, D. Stark, D. P. Woo

### Clinical Instructors\*

M. Ackerman, K. Anaman, R. Bhargava,  
M. Berthiaume, S. Brakstad, D. Brandt,  
K. Cadman, D. E. S. Clements, H. Conrad,  
W. Foster, K. Goos, D. Hall, T. Jarotski,  
W. Jarotski, J. Kudryk, K. Kudryk, T. Lange,  
N. Moe, C. Oleksyn, R. Penkala,  
M. M. Pollock, M. Redden, A. Romaniuk,  
R. J. Shavron, J. A. H. Stephenson,  
E. Underwood, R. Zachow

### Sessional Lecturer\*

U. J. Kerry

## MEMBERS FROM OTHER FACULTIES

B. H. J. Juurlink, Professor and Head of  
Anatomy and Cell Biology

L. T. J. Delbaere, Professor and Head of  
Biochemistry

D. K. J. Gorecki, Dean of Pharmacy

S. J. Hayes, Professor and Head of  
Microbiology and Immunology

M. E. Horsburgh, Dean of Nursing

K. L. Massey, Professor and Head of  
Pathology

A. Livingston, Dean of Veterinary Medicine  
Dean of Medicine, T. B. A.

W. Walz, Professor and Head of Physiology

T. W. Wilson, Professor and Head of  
Pharmacology

\*Denotes non-members of faculty.

## GENERAL INFORMATION

The Senate of the University of Saskatchewan approved the establishment of a College of Dentistry on the Saskatoon Campus on July 1, 1965: a Dean of Dentistry, Dr. K. J. Paynter, and the first College of Dentistry staff members were appointed on July 1, 1967. The first class of dental students began courses in September, 1968.

The College of Dentistry offers a fully accredited dental program with a proud tradition of excellence in teaching and research. Approximately 25 qualified students graduate each year. In addition to

its teaching and service functions, the College has a commitment to research involving the entire faculty. Recent projects involve a CIDA dental/health care project, a periodontal health project with Mexico, involvement in a major study of Multiple Sclerosis, a project in bacterial adhesion to oral surfaces and ongoing studies in dental materials. In the summer, research opportunities are provided for students in both clinical and basic science areas. In addition, there are events that provide innovative learning, research and clinical experiences for students during the academic year.

Our preclinical teaching area includes a state-of-the-art simulation clinic where students learn basic procedures in a clinical setting with current techniques in infection control and fiber optic technology using the latest in multimedia presentation. Our patient treatment clinic remains one of the most attractive facilities in North America, providing an excellent environment for both patients and students during the clinical training phase of the program. An ultra modern six-chair clinic provides an "actual" clinical practice experience for senior students.

## ADMISSION REQUIREMENTS

The College of Dentistry offers a four-year program, following a minimum of two academic pre-dentistry years, leading to the Doctor of Dental Medicine (D.M.D.) degree.

Students wishing to complete another degree while enrolled in the College of Dentistry should contact the Dean's Office as soon as possible.

Admission to the College of Dentistry requires a minimum of two pre-dentistry years, including at least 60 credit units of university level work within two standard academic terms of 8 consecutive months (September to April). Courses used for admission from another post-secondary institution must be equivalent to those offered at the University of Saskatchewan. The required pre-dentistry courses are:

(1) ENG 110.6 or any two of ENG 111.3, 112.3, 113.3, 114.3\*

(2) BIOL 110.6

(3) CHEM 111.3 and 251.3

(4) PHYS 111.6 or 121.6

(5) BIOCH 200.3 and 211.3

(6) Six credit units in the social sciences or humanities

(7) Sufficient courses to meet the 60 credit unit requirement.

*Recommended course: Six credit units in human physiology.*

\*Grade 13 or OAC English are not equivalent to these courses.

*Note:* Students attending the University of Regina should see Admission to Professional Programs for Students from the University of Regina in the General Information section of the *Calendar*.

Students may schedule their required pre-dentistry courses (listed above) as they wish, providing they maintain a 30 credit

unit courseload per academic year (September to April). An overall minimum average of 70% must be obtained in the required pre-dentistry courses for applicants to be considered for admission. If the average is below 70%, students may improve their average in the pre-dentistry course areas by taking approved higher level courses in the same subject area. Courses approved for substitution are upper level courses, which have the applicable pre-dentistry course as a prerequisite.

## SELECTION CRITERIA

Applicants are selected on the basis of: 1) academic record, 2) Dental Aptitude Test results, 3) personal interview, and 4) overall committee assessment.

The method of evaluation and relative weights are as follows:

### 1. Academic Record (65%)

*Required pre-dentistry courses:*

Applicants must have a minimum overall average of 70% in the required pre-dentistry courses. The weighted average of these courses will be used to determine the applicant's eligibility for further admissions considerations. Applicants who have not completed this requirement will not be considered.

*Two year 60 credit unit requirement:*

The full weighting of 65% is given to the two best 30-credit unit years of study. To be eligible for consideration for admission, applicants must have completed at least 60 credit units of university level work within two standard academic terms of 8 consecutive months (September to April) and obtain a minimum overall average of 74%. Applicants who do not meet this requirement will not be considered.

In addition to completing the specified required pre-dentistry courses, students should choose a program/courses that will help them reach an alternate career choice if dental college is no longer a viable option: e.g. a program in the natural sciences.

*Transfer Credits:*

Students who have attended other post-secondary institutions must complete the equivalent of the required pre-dentistry courses and a minimum of two full 30 credit unit years (see pre-dentistry courses listed above). Applicants who do not complete these requirements will not be considered.

### 2. Dental Aptitude Test (25%)

Applicants must take the Dental Aptitude Test (DAT) administered by the Canadian Dental Association. The test is conducted each year by a number of universities across Canada, including the University of Saskatchewan, and will be held on November 3, 2001 and February 16, 2002. The deadlines for application are September 30, 2001 and January 15, 2002, respectively. The results of both dates will be accepted and considered. For further information, contact Admissions, College of Dentistry.

DAT results older than three years will not be considered for admission purposes. If

an applicant has taken more than one DAT within this period, an average of the two best test results will be used as the final score.

DAT scores used will be the total of those earned on Reading Comprehension (50%), Perceptual Ability (25%) and Carving (25%).

Applicants applying from outside Saskatchewan should contact the Canadian Dental Association directly for application information at: (613)523-1770, Fax: (613)523-7489, email: dat@cda-adc.ca.

### 3. Interview (10%)

Interviews are granted based on current academic performance. Applicants not chosen for interviews in March/April will not be re-evaluated for the final selection for the current year. The interview follows a structured format and lasts approximately 40 minutes. Those who have taken the interview at the University of Saskatchewan more than once will be given a score based on the average of the two best scores.

### 4. Reference Letters

Three letters of reference testifying to the applicant's character are required. These letters are to be sent directly to Admissions, College of Dentistry. Relatives cannot provide character references.

## CATEGORIES OF APPLICANTS

### Saskatchewan Residents

a) Applicants must be Canadian citizens or landed immigrants at the time of application.

b) Applicants normally must have resided in Saskatchewan for at least 2 years immediately prior to September 1 of the year in which admission is sought. However, applicants who have left the province but have previously lived in Saskatchewan for an accumulated period of 15 years (permanent residency) will be treated as residents. Applicants who have previously lived in Saskatchewan for an accumulated period of less than 15 years and who do not qualify under the two-year condition will receive credit of one year toward the two-year requirement for every 8 years of residency in the province.

c) An exception to the two-year ruling may be made for members of the Canadian Forces or R.C.M.P. or to an applicant whose spouse, parent or guardian has moved to Saskatchewan for reasons of employment or training. In this case, the applicant must have resided in Saskatchewan for at least 12 consecutive months preceding the time of application.

d) In support of the claim to qualify under sections (b) and (c) above as a resident of Saskatchewan, the following will be taken into account:

- place of residence of parents, guardians or breadwinner;
- reasons for any break in the continuity of residence, which will include attendance at an out-of-province educational institution, summer employment where applicable, and any other reason deemed to be relevant;
- filing of income tax returns as a resident of Saskatchewan (where applicable), Driver's License and Hospitalization

(residency based on dates Driver's License and Hospitalization have been changed);

- resident of the Northwest, Nunavut or Yukon Territories.

### Canadian and International Applicants

Applicants are required to complete courses equivalent to those listed under "Admission Requirements" in this section of the *Calendar*. Equivalent course work will be evaluated upon submission of official transcripts.

In addition to completing the requirements listed above, applicants should note that the language of instruction at the University of Saskatchewan is English. Applicants whose university-level courses were completed at an institution where the language of instruction and examination is not English must provide evidence of English proficiency. See Admission Requirements, English Proficiency in the General Information section of the *Calendar*.

Non-Canadian applicants will need to obtain a Student Authorization to study in Canada.

### Aboriginal Applicants

(Saskatchewan Residents only)

There is a separate category in which three first-year spaces are reserved for persons of Aboriginal descent. Applicants must meet the minimum admissions requirements – an overall academic average of 74% or greater on the two best years and an average of 70% or greater in the required pre-dentistry courses. Applicants must achieve an acceptable rating on the interview and successfully complete the Dental Aptitude Test (DAT). Applicants wishing to apply under this category should identify themselves on the application for admission. For information on procedures for submitting proof of Aboriginal ancestry, see Admission, Aboriginal Applicants, in the General Information section of the *Calendar*.

## APPLICATION FOR ADMISSION PROCEDURES

Applications may be obtained from Admissions, College of Dentistry beginning in July of the year prior to entry. The application deadline is January 15 of the year in which admission is sought. Offers of admissions are normally made in June. A copy of the 2002 Application for Admission is also available at: [www.usask.ca/dentistry/](http://www.usask.ca/dentistry/)

*Note:* Completion of the pre-dentistry program does not guarantee admission. In 2002, the number of entering students is 25 (15 Saskatchewan applicants with the highest standing and up to 10 places that may be offered to out-of-province or international applicants).

Applicants who have been unsuccessful in gaining admission to the college are required to reapply each year. Admission requirements are subject to change from year to year. Enquiries concerning admissions should be directed to Admissions, College of Dentistry.

### Transcripts

Applicants from other accredited post-secondary institutions must arrange for two

final, complete official transcripts to be forwarded by the appropriate institution(s) directly to Admissions, College of Dentistry. Transcripts or statements of standing issued to students are unacceptable. Applicants who are presently attending classes in the second semester/term must ensure that these courses are indicated on the transcript for the current academic year. Applicants who previously attended or are currently attending the Universities of Regina or Saskatchewan are not required to request transcripts. The Office of the Registrar will forward these to Admissions, College of Dentistry.

*Note:* If transcripts/documents are in a language other than English or French, the applicant must submit an official notarized, word for word, English translation together with original documents. Calendars and/or course outlines covering the completed courses must also be submitted.

*Note:* Candidates who are interviewed must arrange for two final and official, complete transcripts to be forwarded directly by the appropriate institution(s) to Admissions, College of Dentistry as soon as possible after the final marks for the second semester/term are available.

### Advanced Standing

At the present time, the college has no arrangements for considering and/or accepting advanced standing applicants from other dental schools.

### Post-Graduate and Qualifying Programs

Currently, the college does not offer graduate level studies or a qualifying year program for dental graduates from other countries wishing to meet the requirements of the provincial licensing bodies.

### Transfer Students

Students currently enrolled in an accredited Canadian or American dental school who wish to transfer to the College of Dentistry at the University of Saskatchewan may be considered for admission into second year, space permitting. Applicants must meet all academic requirements for admission into first year. In addition, dental program equivalency with the first year of the D.M.D. program at the University of Saskatchewan must be completed. Applicants enrolled in dental schools where the curriculum is not sufficiently equivalent to allow for direct entry into second year are not eligible for transfer consideration. Applicants should be aware that the number of second year places might vary from year to year and most years there are no spaces available for applicants wishing to apply for transfer. Requests for transfer must be received by January 15 of each year.

## BOARD ELIGIBILITY AND LICENSURE

A reciprocity agreement exists between the Canadian Dental Association and the American Dental Association making graduates from accredited Canadian or American dental programs eligible for licensure in either country. The written National Dental Examination Board (NDEB) and Objective Structured Clinical

Examinations (OSCE) are taken in the final year of the D.M.D. program at the College of Dentistry, University of Saskatchewan. Once these are successfully completed students are eligible for licensure in any province in Canada.

Graduates from the College of Dentistry, University of Saskatchewan are also board eligible in each state or region of the United States. Dental licensing is under the authority of each state in the United States. For details of licensure, students should check with the state in which they plan to practice. Appropriate telephone numbers by state are listed on the web at [www.ada.org/prac/careers/statebds.html](http://www.ada.org/prac/careers/statebds.html).

## MICROSCOPE, INSTRUMENTS, EQUIPMENT, SUPPLIES, FEES, BOOKS

Students are responsible for the purchase of any required instruments. All students, upon registering for the first dental year, must obtain a microscope approved by the Department of Anatomy. Over the total program the cost of such instruments is estimated at \$27,000.00, with the bulk of the expenditure incurred in the first two or three years.

## REGISTRATION AND ATTENDANCE

Early registration by mail is available for all years of Dentistry.

All years begin Monday, August 27, 2001.

Late registration will be permitted only under exceptional circumstances, and by special ruling of the Faculty.

Students are required to attend all lecture and laboratory periods. Failure to do so without satisfactory reason, or failure to perform the course work to the satisfaction of the Faculty, will result in loss of credit for the course, exclusion from the final examination, or possible discontinuance.

Students cannot register for the full program of study in any session until they have completed the requirements of previous sessions.

Students may be required to discontinue the study of dentistry for non-academic reasons such as health.

## SCHOLARSHIPS

15 renewable scholarships are available annually to the top 15 Saskatchewan residents who are admitted to the College of Dentistry. In September 2001, each scholarship is valued at \$18,000.00 in Year One and renewable for three additional years at the same level of funding. Information on scholarships, loans and bursaries through the University of Saskatchewan can be found in the *Awards Guide* available from the Office of the Registrar and on the web at [www.usask.ca/registrar/awardsguide](http://www.usask.ca/registrar/awardsguide).

# DENTISTRY

## DOCTOR OF DENTAL MEDICINE PROGRAM

### FOUR-YEAR D.M.D. PROGRAM (EFFECTIVE SEPTEMBER 1, 1999)

In the first year and a half of the four-year dental program, the basic science courses are closely integrated, physically and academically, with those of the College of Medicine.

#### First Year (44 credit units)

ANAT 232, 233, 234, BD&SS 201, 214, 225, C&CD 208, 218, 220, 221, 230, DENT 210, 288, MICRO 204, PHSIO 202.

#### Second Year (59 credit units)

BD&SS 301, 314, 319, 325, 348, 353, C&CD 317, 320, 324, 330, 340, 350, MICRO 305, PATH 301, PEDS 302, PHCOL 301.

#### Third Year (54 credit units)

BD&SS 401, 419, 448, 453, 455, 463, 466, 486, C&CD 417, 420, 424, 430, 440, 450, 475; DENT 410, 440.

#### Fourth Year (56 credit units)

The fourth-year courses and titles are listed below. Descriptions of these courses will be published in the 2002-2003 University Calendar.

BD&SS 501 Oral Radiology

BD&SS 519 Periodontics

BD&SS 536 Special Topics in Oral Biology

BD&SS 547 Medical-Dental Relationships

BD&SS 548 Diagnosis/Oral Medicine and CPRC's

BD&SS 563 Advanced Oral and Maxillofacial Surgery

BD&SS 573 Medical Emergencies in the Dental Office

C&CD 517 Orthodontics

C&CD 520 Operative Dentistry

C&CD 524 Pedodontics

C&CD 530 Removable Prosthodontics

C&CD 540 Fixed Prosthodontics

C&CD 550 Endodontics

DENT 540 Dental Practice Management

DENT 580 General Dentistry Clinic

DENT 585 Comprehensive Care Senior Clinics

DENT 590 Option Program

### FIVE-YEAR D.M.D. PROGRAM (LAST CLASS OF THE 5-YEAR PROGRAM WILL GRADUATE IN MAY 2003.)

#### Fourth Year (44 credit units)

BD&SS 502, 503, 509, 512, 513, 522, C&CD 501, 504, 507, 511, 514, 515, 525, 535, DENT 520.

#### Fifth Year (42 credit units)

BD&SS 602, 603, 606, 609, 612, C&CD 601, 604, 607, 614, 615, 625, 635, 645, DENT 610.

## ACADEMIC REGULATIONS

For information governing examinations, students are referred to the *University Council Regulations on Examinations* section in the *Calendar* or to [www.usask.ca/registrar/examregs/](http://www.usask.ca/registrar/examregs/).

For information on *College Regulations on Examinations*, students are referred to the college office or to [www.usask.ca/dentistry/examregs/](http://www.usask.ca/dentistry/examregs/).

For *Student Appeals in Academic Matters, Non-Academic Student Discipline and Appeals* and *Student Academic Dishonesty Rules*, see the General Information section of the *Calendar* and [www.usask.ca/university\\_council/reports.shtml](http://www.usask.ca/university_council/reports.shtml) or [www.usask.ca/uofs/dishonesty](http://www.usask.ca/uofs/dishonesty).

## PROMOTION AND GRADUATION

The following promotion and graduation regulations apply within the College of Dentistry. The grading system followed differs from the general one detailed in the General Information section of the *Calendar* in that the literal descriptions have been expanded to include some terminology which reflects competency in cognitive and/or psychomotor and/or attitudinal skills. Details on this may be obtained from the Dean's Office.

(1) Students must achieve a minimum grade of 50% or a completed requirement (CR) to pass any course and must receive a minimum weighted average of 60% to be promoted or graduate.

To be promoted from Year II to Year III, students must have a combined average of 60% of the delegated mark in the practical component of the three preclinical disciplines, C&CD 320, 330 and 340. Failure to do so will mean repeating the year.

(2) Students who have less than 60% as a sessional weighted average, but have achieved a minimum grade of 50% in each course, will be required to take supplemental examinations in a maximum of the equivalent of two full courses (8 credit units) in order to raise their sessional weighted average to 60% or greater.

(3) Students who fail in not more than the equivalent of two full courses (8 credit units) but have achieved a grade of at least 40% in those courses and a sessional weighted average of 60% or greater in all courses passed, will be required to take supplemental examinations in the courses failed and achieve a sessional weighted average of 60% or greater to be promoted or graduate.

(4) Students achieving a grade of less than 40% in a course may not take supplemental examinations, unless approved by the Executive Committee.

(5) Students who fail to obtain a passing grade in any laboratory or clinical course may, at the discretion of the faculty, be required to either pass a supplemental examination, when appropriate, or repeat the work of the entire year including all examinations, before being promoted to a higher year.

(6) Students must, in the event of non promotion, repeat all courses failed plus any courses deemed advisable by the Undergraduate Education Committee.

(7) If repeating a year, students should, if possible, find alternate courses to those courses not required by faculty to make up the equivalent of a full year. The courses must be approved by the Undergraduate Education Committee.

(8) Students who have failed and wish to repeat the year must submit a formal written request to the Dean for approval by the Executive Committee.

(9) In extenuating circumstances, at the discretion of the Executive Committee, a student may be asked or permitted to withdraw for one year. A student must apply to the college for re-admission.

(10) The D.M.D. degree with distinction will be awarded to any student who obtains a cumulative weighted average of 75% or more but less than 80% in the dental years; the D.M.D. degree with great distinction will be awarded to any student who obtains a cumulative weighted average of 80% or more in the dental years.

## FEES, PAYMENT OF FEES, CANCELLATIONS AND REFUNDS, WITHDRAWAL AND COURSE CHANGES

See General Information section of the *Calendar*.

## EXEMPTIONS

Students who have obtained credit for a regular required course and want exemption from that course in the dental program must *apply in writing prior to August 1*. Application forms are available from Admissions, College of Dentistry.

## COURSE DESCRIPTIONS

See the General Information section of the *Calendar* for an explanation of the format used in course descriptions.

## COURSES OFFERED BY OTHER COLLEGES

\*For details, see the College of Medicine section of the *Calendar*.

### ANATOMY AND CELL BIOLOGY

\*ANAT 232.6  
Cell Biology and Histology

ANAT 233.3  
Embryology and Gross Anatomy 1(6L/P)

Embryology and an introduction to systemic anatomy will be covered, and a detailed study of the gross anatomy of the head, neck and thorax will be undertaken by regional dissection.

\*ANAT 234.3  
Introductory Neuroanatomy

### MICROBIOLOGY

\*MICRO 204.2  
Immunology

MICRO 305.6  
Human Oral Infectious Diseases 1(7L/P/T)

This course consists of didactic lectures, laboratory exercises, and clinical microbiology conferences, part of which are taken in conjunction with the College of Medicine. Deals with the general principles of medical bacteriology, mycology, virology, parasitology, and the organisms involved in systemic infections in general and oral infections in particular. Complications of systemic infections with oral manifestations or oral infections resulting from dental procedures are discussed. The role of the medical laboratory in the diagnosis of infectious diseases is also discussed together with consideration of antimicrobial therapy in relation to both systemic and oral infections.

### PATHOLOGY

\*PATH 301.6  
General Pathology

### PEDIATRICS

\*PEDS 302.3  
Human Genetics

### PHARMACOLOGY

\*PHCOL 301.6  
Pharmacology

### PHYSIOLOGY

\*PHSIO 202.9  
Physiology

## DENTISTRY COURSES

### BIOLOGICAL, DIAGNOSTIC AND SURGICAL SCIENCES

#### FOUR YEAR D.M.D. PROGRAM

BD&SS 201.2 (Formerly D&S S 201)  
Oral Radiology 2(1L)

This course serves as an introduction to the principles and practice of oral radiology. Lectures cover the underlying principles of production and interaction of x-rays, radiation hygiene and image production. Principles of intra-oral, panoramic and other extra-oral radiographic techniques are discussed.

BD&SS 214.2 (Formerly O BIO 214)  
Oral Histology and Embryology 1(2L)

A lecture and laboratory course that studies the development, histology and function of oral structures that have special significance to dentistry. Course content considers the processes involved in craniofacial development; the development of the teeth and palate; and the histology of hard and soft tissues of the oral and periodontal regions.



**BD&SS 225.2 (Formerly O BIO 225)  
Dental Anatomy and Occlusion  
1(2L/P)**

This is an introductory course in dental anatomy, morphology and occlusion. The general objective is to provide the undergraduate dental student with the knowledge of dental anatomy, morphology and occlusion that forms the basis for much of the practice of clinical dentistry.

**BD&SS 301.4 (Formerly D&S S 301)  
Oral Radiology  
1(3C), 2(2C)**

This is primarily a preclinical laboratory course which provides instruction on intra-oral radiographic technique. Didactic instruction will be minimal. Practical information will also be provided on panoramic, lateral cephalometric, and digital radiography.

**BD&SS 314.4 (Formerly O BIO 314)  
Oral Microbiology, Immunology and Physiology  
1(2L), 2(2L)**

This course considers those areas of microbiology, immunology and physiology with special significance to dentistry. Major topics are oral microflora and ecology; molecular biology of microbial adherence; formation and metabolism of dental plaque; microbiology of dental caries and periodontal disease; immunology of dental caries and periodontal disease; physiology of salivary glands and saliva; classification and physiology of neuroreceptors and their integration/modulation by the central nervous system; and the physiology of pain, taste, swallowing and mastication.

**BD&SS 319.4 (Formerly D&S S 319)  
Periodontics  
1(1L), 2(1L-3C)**

A lecture and clinical demonstration course which provides an introduction to the etiology, pathogenesis and epidemiology of diseases that affect the periodontal tissues. Students will be given opportunities to provide preventive periodontal care in the clinic.

**BD&SS 325.4 (Formerly O BIO 325)  
Dental Anatomy and Occlusion  
1(3P)**

A lecture, laboratory and clinical course that considers the pathophysiology of occlusion, the clinical implications of occlusal health and disease, and the common diagnostic and treatment methods used to manage occlusion-related disorders. Topics are: functional and parafunctional aspects of occlusion as they relate to clinical dentistry; clinical and laboratory techniques of occlusal examination and occlusal analysis; classification of abnormal occlusions; indications, rationale and technique of selective grinding and occlusal adjustment; and the indications, rationale and technique of occlusal stabilization splint construction.

**BD&SS 348.2 (Formerly D&S S 348)  
Diagnosis  
2(1L,2C)**

Prepares students for clinical management of patients. It includes a systematic approach to diagnostic and patient

management. Students are introduced to history taking, examination, laboratory testing and record systems. The problem-oriented approach to diagnosis and management is presented. A complementary clinical course provides experience to prepare students for clinical sessions in diagnosis and patient management.

**BD&SS 353.2 (Formerly D&S S 353)  
Local Anesthesia  
1&2(1L)**

The objectives of this course are to teach students the basic principles of administering local anesthetics safely and effectively. Topics to be discussed will include the indications and advantages of regional anesthesia, and the various techniques available to the dentist. Emphasis will be placed upon an understanding of the pharmacologic actions of local anesthetics and vasoconstrictors and their side effects and complications. Proper patient evaluation to identify high-risk patients will be stressed.

**BD&SS 401.4  
Oral Radiology  
1&2(1L-1S)**

Lectures, self-instructional packages, and seminars cover normal radiographic appearances in the jaws as well as the radiographic manifestations of disease processes. Time is also spent discussing general principles of radiographic interpretation. The clinical component of this course involves selecting an appropriate intra-oral radiographic series, taking intra-oral radiographs and interpreting intra-oral and panoramic radiographs of clinic patients that the student sees in the Diagnosis clinic.

**BD&SS 419.4  
Periodontics  
1&2(1L-3C)**

A lecture/laboratory/clinic course designed to enable students to become competent in diagnostic skills and to develop the clinical skills necessary to perform periodontal therapy within the context of a comprehensive dental treatment plan. Students review current aspects of the scientific literature during seminar sessions.

**BD&SS 448.2  
Diagnosis  
1&2(1L), 2(3C)**

Principles of treatment planning are covered in Term 1 to prepare students for practice in the clinic. In Term 2, students are responsible for performing diagnosis and treatment planning under faculty guidance. Various oral medicine topics, including temporomandibular disorders (TMD) and other orofacial pain states, are covered in Term 2.

**BD&SS 453.2  
Sedation and Pain Control  
1(1L-2P)**

Lectures and demonstrations are used to introduce concepts of managing patient apprehension through the use of various techniques of conscious sedation. Although students will gain facility mainly with the use of nitrous-oxide/oxygen inhalation

sedation, other modalities will also be covered. The indications, advantages and disadvantages, and complications of the various techniques will be discussed.

**BD&SS 455.2  
Basic Internal Medicine  
1(1L)**

Consists of lectures/seminars. Common medical problems affecting dental management are discussed and illustrated using case reports.

**BD&SS 463.4  
Oral and Maxillofacial Surgery  
1&2(1L-3C)**

Introduces students to the basic principles on which the practice of oral and maxillofacial surgery is founded. Self-instruction manuals are introduced for this purpose, and their use is incorporated directly into the course format. Proper history taking and patient assessment are stressed, and students are introduced to the core theoretical knowledge and basic surgical skills and sterile techniques needed to practice minor oral surgery. Students are taught basic and advanced techniques for the removal of teeth, and the prevention and management of their intraoperative and postoperative complications. The selection and prescribing of appropriate analgesic and antibiotic medications is discussed. Students are taught to recognize, manage and/or refer orofacial infections. Students are rostered into the oral surgery clinic where opportunity is given initially to observe and assist, and then to participate in minor oral surgical procedures. Students are also introduced to hospital dentistry, including operating room protocol and observing major maxillofacial surgery.

**BD&SS 466.2  
Hospital Rosters  
1&2(1L)**

Students are assigned for one week to Royal University Hospital and rotate through various medical services and hospital dentistry. Under the guidance of the medical and house staff, students observe and participate in the patient care and management of diseases that they have studied to appreciate the effects of these and gain further insight into medical problems they may encounter in their practice.

**BD&SS 486.4  
Oral Pathology  
1(3L)&2(2L)**

This lecture series provides the students with the knowledge and understanding of diagnosis, pathogenesis, clinical and histologic features, management, and prognosis of oral diseases with emphasis on their oral manifestations and implications. Topics include developmental abnormalities of the oral hard and soft tissues; infections of the oral cavity; physical and chemical injuries of the oral cavity; benign and malignant neoplasms; the oral manifestations of metabolic, dermatologic, hematologic and immunologic disease; fibro-osseous lesions; non-odontogenic and odontogenic tumors and cysts; salivary gland disease; and forensic odontology.

**FIVE YEAR D.M.D. PROGRAM****BD&SS 502.2 (Formerly D&S S 502)  
Oral Radiology  
2(1L-2C)**

A continuation of the clinical component of D&S S 402. Students are evaluated on their ability to select an appropriate series of intra-oral radiographs for a given patient, take these radiographs, and interpret them. In addition, students are expected to write interpretations on selected assigned cases.

**BD&SS 503.2 (Formerly D&S S 503)  
Oral and Maxillofacial Surgery  
1&2(1L-3C)**

A continuation of BD&SS 403 and covers more advanced topics in oral surgery. The self-instruction manuals continue to be utilized, in conjunction with formal lectures. Various types of dentoalveolar surgery are discussed as well as the clinical applications of drugs such as antibiotics and analgesics. Other topics discussed include orofacial infections, major maxillofacial surgery (i.e., secondary cleft palate surgery, preprosthetic surgery, maxillofacial traumatology, etc.), and the management of head and neck cancers. Students are given more opportunity to develop expertise in minor oral surgery in a clinical setting. Students are introduced to hospital dentistry, including operating room protocol and observing major maxillofacial surgery.

**BD&SS 509.4 (Formerly D&S S 509)  
Periodontics  
1&2(1L-4C)**

A lecture/seminar/clinical course in which the interrelationship of periodontics to other disciplines is emphasized and a review of current aspects of the periodontal scientific literature is undertaken. Clinical experience is continued through regular attendance in the teaching clinics.

**BD&SS 512.2 (Formerly D&S S 512)  
Diagnosis and Oral Medicine  
1(1L-3C), 2(3C)**

Various oral medicine topics are covered, including the management of oral lesions, the management of radiotherapy and chemotherapy patients, the management of patients with salivary disorders and the dental management of patients with infectious diseases. The student is also responsible for performing dental emergency procedures and diagnosis and treatment planning under the guidance of college faculty in the emergency, diagnosis and oral medicine/oral pathology clinics.

**BD&SS 513.2 (Formerly D&S S 513)  
Sedation and Pain Control  
1(1L-2C)**

Lectures and demonstrations are used to introduce concepts of managing patient apprehension through the use of various techniques of conscious sedation. Although students will gain facility mainly with the use of nitrous-oxide/oxygen inhalation sedation, other modalities will also be covered. The indications, advantages and disadvantages, and complications of the various techniques will be discussed.

# DENTISTRY

## **BD&SS 522.2 (Formerly D&S S 522) Basic Internal Medicine 1&2(1L)**

Students are assigned for one week to Royal University Hospital and rotate through various medical services and hospital dentistry. Under the guidance of the medical and house staff, students observe and participate in the patient care and management of diseases that they have studied to appreciate the effects of these, and gain further insight into medical problems they may encounter in their practice.

## **BD&SS 602.2 (Formerly D&S S 602) Oral Radiology 1(3C)**

For course description see BD&SS 502.

## **BD&SS 603.2 (Formerly D&S S 603) Advanced Oral and Maxillofacial Surgery and Management of Medical Emergencies 1(1L-3C)**

A continuation of BD&SS 503. More specialized topics in oral and maxillofacial surgery such as orthognathic surgery and temporomandibular joint surgery are covered. A major part is devoted to the management of medical emergencies in the dental office. Clinical experience continues with more advanced patient management in order to develop competence in routine minor oral surgery.

## **BD&SS 606.2 (Formerly O BIO 606) Special Topics in Oral Biology 1(1L)**

The relevance of the basic sciences to clinical dentistry. The scientific bases of various aspects of clinical dentistry are examined in detail.

## **BD&SS 609.2 (Formerly D&S S 609) Periodontics 1(1L-4C)**

Student clinical experience as group leaders is continued. Students present seminars based on case presentations of patients being treated in the clinic.

## **BD&SS 612.2 (Formerly D&S S 612) Diagnosis 1(1L-3C)**

Students participate in a multidisciplinary seminar to gain experience in applying previous knowledge to clinical patient cases. Clinical experience is given in diagnosis, treatment planning, and emergency procedures under the guidance of the college faculty in the diagnosis, emergency, and oral medicine/oral pathology clinics.

## **CLINICAL AND COMMUNITY DENTISTRY**

### **FOUR YEAR D.M.D. PROGRAM**

## **C&CD 208.2 (Formerly C&P D 208) Principles and Practice of Dentistry 1(2L), 2(1L)**

Introduces students to a number of topics related to the social context within which dentistry exists. These include the history of dentistry, dentistry and ethics, the development of dental education, oral health care delivery systems, current issues in oral health and oral health services in Saskatchewan.

## **C&CD 218.2 (Formerly C&P D 218) Preventive Dentistry 2(2L)**

Reviews the epidemiology of oral diseases and current concepts of prevention and their practical application. The various uses of fluorides in disease prevention are dealt with in depth. Other measures discussed include fissure sealants, nutritional counselling and patient motivation in relation both to dental practice and community health programs.

## **C&CD 220.4 (Formerly R&P D 220) Operative Dentistry 1(2L-4P), 2(1L-2P)**

This is a preclinical lecture/ demonstration/ laboratory course introducing the student to the basic biomechanical principles of tooth restoration. The course emphasizes the development of manual dexterity skills using rotary and hand instruments. Attention is also given to the development of professional skills in terms of organization, tidiness and time management. The need for infection control is also introduced.

## **C&CD 221.2 (Formerly R&P D 221) Dental Materials 1&2(1L)**

This course is a basic program to familiarize students with the terminology and theoretical concepts of dental materials used in clinical dentistry, as well as the safety issues concerning dental materials.

## **C&CD 230.2 (Formerly R&P D 230) Removable Prosthodontics 2(1L-2P)**

A preclinical lecture/ demonstration/ laboratory course in which students will undertake laboratory exercises relating to technical procedures involved in the fabrication of removable prostheses.

## **C&CD 317.2 (Formerly C&P D 317) Orthodontics 2(1L, 2.5P)**

The orthodontic lectures in this year emphasize the diagnostic and treatment planning aspect of simple and complex orthodontic cases, as well as their treatment and management. Second year provides the basics of case presentation and patient evaluation and prepares the student for the orthodontic clinic.

## **C&CD 320.4 (Formerly R&P D 320) Operative Dentistry 1(1L-2.5P), 2(1L-3C)**

Term 1 consists of review material and a six-week competency performance exam to prepare students for patient treatment in Term 2. Upon entering the dental clinic, students are introduced to clinic protocol and staff through a series of exercises using extracted human teeth in plaster pucks. Once familiarized with the clinic, students commence patient care supplemented by weekly lectures on treatment planning, restorative techniques and materials.

## **C&CD 324.2 (Formerly C&P D 324) Pedodontics 2(1L, 2P)**

This course strives to introduce students to various aspects of basic Pediatric Dentistry. The course objectives have been designed to aid the student in gaining a clinical

knowledge of restorative dentistry for the primary dentition, pulp therapy for primary teeth, pediatric radiology, and diagnosis and treatment planning for the child patient.

## **C&CD 330.4 (Formerly R&P D 330) Removable Prosthodontics 1&2(1L-2.5P)**

A preclinical/clinical lecture/ demonstration/ laboratory course in which students will continue to undertake exercises relating to technical procedures involved in fabricating complete dentures and treatment planning of removable partial dentures. It will also prepare students for patient treatment in Term II. Once oriented, students will start treatment on patients in the provision of complete denture prostheses. Clinical experience will be supplemented by weekly lectures and seminars related to the art and science of removable prosthodontics.

## **C&CD 340.4 (Formerly R&P D 340) Fixed Prosthodontics 1&2(1L-2.5P)**

A preclinical course that introduces the basic fixed prosthodontics principles and techniques required to prepare teeth, to fabricate provisional restorations and to learn the clinical and laboratory techniques necessary to fabricate a definitive cast metal restoration.

## **C&CD 350.2 (Formerly R&P D 350) Endodontics 2(L)**

This course is designed to impart to the students the basic rationale, biological principles, treatment objectives and treatment procedures in endodontic therapy.

## **C&CD 417.4 Orthodontics 1&2(1L-2.5C)**

Orthodontic lectures in this year will continue to emphasize the diagnostic and treatment planning aspects of simple and complex orthodontic cases, as well as provide an insight into their treatment techniques and patient management.

## **C&CD 420.4 Operative Dentistry 1(1L-2.5C), 2(4C)**

This is a program of continued experience in the discipline of operative dentistry, providing treatment planning and efficient delivery of restorative dental procedures. Students will build upon previous experience tackling more complex cases and utilizing a broader array of dental materials. The lecture program will provide supplemental knowledge to encourage independent inquiry and self-evaluation.

## **C&CD 424.4 Pedodontics 1&2(1L-2.5C)**

This course is a continuation of C&CD 324 and strives to introduce further aspects of basic pedodontics not covered in the introductory course. The course objectives have also been designed to aid the students in gaining a clinical knowledge of subjects such as traumatic injuries to primary and young permanent teeth, child growth and development, behaviour management and space maintenance.

## **C&CD 430.4 Removable Prosthodontics 1&2(1L-5.5C)**

Lecture/discussion/seminar sessions in clinical application of complete and removable partial denture theory. Clinical practice in complete and partial denture therapy.

## **C&CD 440.4 Fixed Prosthodontics 1&2(1L-3C)**

Lectures and clinical practical sessions to provide additional experience preparing teeth for full and partial coverage restorations early in Term 1, as well as to prepare for the transition to clinical treatment. Beginning in the second half of Term 1 and extending into Term 2, clinical procedures and techniques are explained through lectures and patient treatment.

## **C&CD 450.4 Endodontics 1&2(1L-3C)**

This course has two functions. The first is to give the students an opportunity to learn the technical procedures in endodontic therapy through laboratory exercises which simulate clinical cases. The second is to introduce the students to the clinical management of lesions of endodontic origin through treatment of patients in the dental clinic facility.

## **C&CD 475.2 Introduction to Implant Supported Prosthodontics 2(1L)**

Introduction by lecture and laboratory assignments to the history of implantology, biology of osseointegration, indications and contraindications for implants, treatment planning, implant components, surgical placement of implant fixtures, and principles and procedures of implant prosthodontics.

### **FIVE YEAR D.M.D. PROGRAM**

## **C&CD 501.2 (Formerly C&P D 501) Ethical and Business Aspects of Dental Practice 1&2(1L)**

The first term deals with the Dental Profession Act and the Regulations under the Act, the Dental Code of Ethics, and Dentistry and the Law. The second term provides an introduction to the business and legal aspects of dental practice.

## **C&CD 504.4 (Formerly R&P D 504) Removable Prosthodontics 1&2(1L-3C)**

Lecture/discussion/seminar in complete and removable partial dentures as well as clinical practice in complete and partial dentures.

## **C&CD 507.4 (Formerly C&P D 507) Orthodontics 1&2(1L-5C)**

See course description for C&CD 417.

## **C&CD 511.2 (Formerly C&P D 511) Seminars on Dental Care 2(1L)**

Selected topics considered current and relevant to future dental graduates are presented and discussed.

**C&CD 514.4 (Formerly C&P D 514)  
Pediatric Dentistry  
1&2(1L-5C)**

The lecture series will introduce concepts of dental care for adolescents, medically compromised children and handicapped patients. Other topics will include the diagnosis and treatment of dentoalveolar trauma in children, the principles of sedation for the pediatric dental patient and craniofacial growth and development. Clinical sessions will allow further experience in the provision of dental care to children.

**C&CD 515.4 (Formerly R&P D 515)  
Restorative Dentistry - Operative  
Dentistry IV  
1&2(1L-3C)**

Lecture, seminar and clinical sessions to enhance the student's knowledge of all clinical aspects in tooth restoration. More advanced procedures are introduced and practiced by the students who are encouraged to develop a more independent approach in both behavioural and technical aspects of treatment.

**C&CD 525.4 (Formerly R&P D 525)  
Fixed Prosthodontics  
1&2(1L-3C)**

Lectures, seminars and clinical practice in fixed prosthodontics with a strong emphasis on treatment planning and sequencing.

**C&CD 535.4 (Formerly R&P D 535)  
Endodontics  
1&2(1L-3C)**

Designed to introduce the student to the clinical management of lesions of endodontic origin. Emphasizes the proper diagnosis and treatment planning of these procedures, proper patient management, and an organized approach to the successful completion of these cases. A lecture series covering various clinical procedures and techniques will augment patient treatment. Student and instructor cases will be reviewed on a regular basis.

**C&CD 601.2 (Formerly C&P D 601)  
Practice Management  
1(1L)**

A continuation of C&CD 501. Topics include office administration, business and personnel management, financial planning,

insurance, and the establishment and maintenance of a dental practice.

**C&CD 604.2 (Formerly R&P D 604)  
Removable Prosthodontics  
1(1L-3C)**

Seminar/discussion sessions in complete and partial dentures as well as clinical practice in complete and removable partial dentures. Introduction to maxillofacial prosthodontics and dental implants.

**C&CD 607.2 (Formerly C&P D 607)  
Orthodontics  
1(1L-5C)**

Seminars will be conducted by students in a combined literature and case analysis approach. Content is mainly directed to various areas not previously covered or where a need for further in-depth study is indicated. The objective is to refine the final year dental student's diagnostic abilities and emphasis is directed at orthodontic case selection and treatment modalities as well as the multidisciplinary aspects of orthodontic treatment.

**C&CD 614.2 (Formerly C&P D 614)  
Pediatric Dentistry  
1(1L-5C)**

A seminar course in which papers will be presented on current topics and advanced problems or techniques relevant to Pediatric Dentistry. The clinical sessions will continue to allow the student to apply the principles introduced and become competent in the provision of dental care to children.

**C&CD 615.2 (Formerly R&P D 615)  
Restorative Dentistry - Operative  
Dentistry V  
1(1L-3C)**

Selected seminar/discussion sessions when indicated to provide comprehensive view of practicing Operative Dentistry. In clinical training emphasis is placed on guiding students to formulate and apply a more independent approach in their practice of restorative dentistry.

**C&CD 625.2 (Formerly R&P D 625)  
Fixed Prosthodontics  
1(1L-3C)**

Class presentations and short essays on specific topics of interest. Clinical experience continues with the emphasis on more difficult treatment techniques and problem solving.

**C&CD 635.2 (Formerly R&P D 635)  
Endodontics  
1(1L-3C)**

A continuation of R&P D 535, the basis of which is the diagnosis and treating of endodontic problems of patients in the clinic. Conservative endodontic therapy will be the mode of treatment most routinely used; however, teaching instruction and student observation of surgical management of endodontic lesions will be encouraged.

**C&CD 645.2 (Formerly R&PD 645)  
Introduction to Implant Supported  
Prosthodontics  
1(1L)**

Introduction by lecture and laboratory assignments to the history of implantology, biology of osseointegration, indications and contraindications for implants, treatment planning, implant components, surgical placement of implant fixtures, and principles and procedures of implant prosthodontics.

## GENERAL

### FOUR YEAR D.M.D. PROGRAM

**DENT 210.1  
Application of Dental Research to  
Clinical Decision Making  
2(1L)**

This course provides students with knowledge of how to access, understand and critically evaluate dental scientific literature. The course will consist of lectures and laboratory sessions. In the laboratory sessions, students will perform computer generated literature searches in the Health Science Computer Lab.

**DENT 288.2  
Infection Control in Dentistry  
2(2L)**

Successful prevention of disease spread and proper maintenance of clinic safety require the knowledge of infection control. Dental students must play key roles in the maintenance of the well being of patients and in the organization of safe dental clinics. These responsibilities require an understanding of procedures used for infection control. The objective of the course is to provide a basic concept of infection control in the form of didactic lectures and clinical practice.

**DENT 410.2  
Application of Dental Research to  
Clinical Decision Making  
1&2(1L)**

The concepts learned in DENT 210 will be extended by reviewing basic statistical issues. Students will conduct a laboratory and/or clinical study to be presented as a table clinic. Findings from the literature review and the experiment will be presented in class and at "Table Clinic Night". This course will consist of lectures and seminars.

**DENT 440.2  
Dental Practice Management  
1&2(1L)**

This course will introduce the concepts of practice management to the dental student. Those students entering the practice of general dentistry upon graduation must have the background knowledge to enable them to make sound decisions with respect to their practice.

### FIVE YEAR D.M.D. PROGRAM

**DENT 520.2  
Application of Dental Research to  
Clinical Decision Making**

Application of the principles of scientific methodology, clinical trials design and statistical evaluation to assess the dental scientific literature as a means to support clinical decision making. Students will be required to undertake a literature review or a laboratory or clinical study suitable for presentation as a table clinic.

**DENT 610.16  
Option Program**

The option program encourages students to explore areas of personal interest in dentistry. Students select a program consisting of one or more options in any clinical, teaching, or research area subject to the Undergraduate Education Committee's approval. Locations range from the University of Saskatchewan to areas in foreign countries. Students are required to submit written reports about their activities during the option period. Supervisors at each locale provide written evaluations. Satisfactory performance in this program is necessary for the student to be considered eligible for graduation.