COLLEGE OF DENTISTRY

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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 pre-clinical 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 will be opened in the spring of 2000 that will provide 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: PHSIO 212.6.

*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 course-load 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 conducted on November 4, 2000 and February 17, 2001. The deadlines for application are September 30, 2000 and January 15, 2001, 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%) and 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. Applicants must achieve a minimum score on the interview to be eligible for admission. 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 interview 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 Armed 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, Yukon or Nunavut 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 in September 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 2001 Application for Admission is also available at: www.usask.ca/dentistry/

Note: Completion of the pre-dentistry program does not guarantee admission. In 2000-2001, 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 not been successful 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 issued to students or statement of standings 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, these will be forwarded to Admissions, College of Dentistry by the Offices of the Registrar.

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 should also be submitted.

Note: Candidates to be interviewed must arrange for two final, 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

If space is available, the college will admit applicants with advanced standing credit only to the regular courses that are required to complete requirements for the D.M.D. degree. For further information, contact Admissions, College of Dentistry.

Post-Graduate and Qualifying Year 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.

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 while 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 where they plan to practice. Appropriate telephone numbers by state are listed on the web at www.ada.org/prac/careers/statebds.html.

REGISTRATION AND ATTENDANCE

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

All years begin Monday, August 28, 2000.

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.

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 provide a microscope approved by the Department of Anatomy. Over the total program the cost of such instruments is estimated at $26,136.00, with the bulk of the expenditure incurred in the first two or three years.

SCHOLARSHIPS

15 renewable scholarships are available annually to the top 15 Saskatchewan residents who apply to the College of Dentistry. Beginning September 2000, 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.

DOCTOR OF DENTAL MEDICINE PROGRAM

FOUR-YEAR D.M.D. PROGRAM (BEGINNING 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

ANAT 232, 233, 234; BIOCH 210; C&P D 208, 218; D&S S 201; DENT 210, 288; MICRO 204; O BIO 214, 225; PHSIO 202; R&P D 220, 221, 230.

Second Year

C&P D 317, 324; D&S S 301, 314, 319, 353; MICRO 305; O BIO 325, 348; PATH 301; PEDS 302; PHCOL 301; R&P D 320, 330, 340, 350.

The third and fourth year courses and titles are listed below. Descriptions for these courses will be published in the University Calendar in 2001-2002 and 2002-2003, respectively.

Third Year

C&P D 417.4 - Orthodontics

C&P D 424.4 - Pedodontics

D&S S 401.4 – Oral Radiology

D&S S 419.4 - Periodontics

D&S S 448.2 - Diagnosis

D&S S 453.2 – Sedation and Pain Control

D&S S 455.2 – Basic Internal Medicine

D&S S 463.4 – Oral and Maxillofacial Surgery

D&S S 466.2 – Hospital Rosters

D&S S 486.4 – Oral Pathology

DENT 410.2 – Application of Dental Research to Clinical Decision-Making

DENT 440.2 – Dental Practice Management

R&P D 420.4 – Operative Dentistry

R&P D 430.4 – Removable Prosthodontics

R&P D 440.4 – Fixed Prosthodontics

R&P D 450.4 - Endodontics

Fourth Year

C&P D 517.4 - Orthodontics

C&P D 524.4 - Pedodontics

D&S S 501.4 – Oral Radiology

D&S S 519.4 - Periodontics

D&S S 547.2 – Medical-Dental Relationships

D&S S 548.2 – Diagnosis/Oral Medicine and CPRC's

D&S S 563.4 – Advanced Oral Maxillofacial Surgery

D&S S 573.2 – Medical Emergencies in the Dental Office

DENT 540.2 – Dental Practice Management

DENT 580.2 – General Dentistry Clinic

DENT 585.4 – Comprehensive Care Senior Clinics

DENT 590.4 – Option Program

O BIO 536.2 – Special Topics in Oral Biology

R&P D 520.4 – Operative Dentistry

R&P D 530.4 – Removable Prosthodontics

R&P D 540.4 – Fixed Prosthodontics

R&P D 550.4 - Endodontics

R&P D 575.2 – Introduction to Implant Supported Prosthodontics

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

Third Year

C&P D 407, 414; D&S S 402, 403, 406, 409, 412, 413, 422; R&P D 404, 415, 425, 435.

Fourth Year

C&P D 501, 507, 511, 514; D&S S 502, 503, 509, 512, 513, 522; DENT 520; R&P D 504, 515, 525, 535.

Fifth Year

C&P D 601, 607, 614; D&S S 602, 603, 609, 612; DENT 610, O BIO 606; R&P D 604, 615, 625, 635, 645.

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, R&P D 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

BIOCHEMISTRY

***BIOCH 210.2**
Nutrition

MICROBIOLOGY

***MICRO 204.1**
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

COMMUNITY AND PEDIATRIC DENTISTRY

Four Year D.M.D. Program

C&P D 208.2 (Formerly C&P D 201)
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&P D 218.2 (Formerly C&P D 301)
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&P D 317.2
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&P D 324.2
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.

Five Year D.M.D. Program

C&P D 407.4
Orthodontics
1&2(1L-5C)

The Orthodontic lecture series will emphasize the diagnostic and treatment planning aspects of this discipline. Current treatment techniques will be presented and the interdisciplinary nature of orthodontics in dental education and the profession will be emphasized. Prior to entering the clinic, clinical and seminar sessions will be directed towards discussing and refining the principles and practice of orthodontic treatment, particularly fixed-banded orthodontic management.

C&P D 414.4
Pediatric Dentistry
1&2(1L-5C)

An introduction to Pediatric Dentistry. The lecture series will introduce the principles of restorative procedures for primary and young permanent teeth, the diagnosis and treatment of pulpal disease in children, child development, behaviour management and other modifications of dental treatment for the child patient. A preclinical laboratory will introduce and refine treatment techniques for the child patient. Clinical sessions will allow the development of clinical skills required for the treatment of children.

C&P D 501.2
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&P D 507.4
Orthodontics
1&2(1L-5C)

See course description for C&P D 407.

C&P D 511.2
Seminars on Dental Care
2(1L)

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

C&P D 514.4
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&P D 601.2
Practice Management
1(1L)

A continuation of C&P D 501. Topics include office administration, business and personnel management, financial planning, insurance, and the establishment and maintenance of a dental practice.

C&P D 607.2
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&P D 614.2
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.

DIAGNOSTIC AND SURGICAL SCIENCES

Four Year D.M.D. Program

D&S S 201.2
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.

D&S S 301.4 (Formerly D&S S 302)
Oral Radiology
1(3C), 2(2C)

This is primarily a pre-clinical 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.

D&S S 319.4 (Formerly D&S S 309)
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.

D&S S 348.2 (Formerly D&S S 312)
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.

D&S S 353.2
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.

Five Year D.M.D. Program

D&S S 402.2
Oral Radiology
1(1L-1S)

Lectures cover normal radiographic appearances in the jaws and the radiographic manifestations of disease processes. Time is also spent discussing general principles of radiographic interpretation. The clinical component involves selecting, taking, and interpreting intra-oral radiographs of actual clinic patients.

D&S S 403.2
Oral and Maxillofacial Surgery
2(1L-2C)

Introduces students to the basic principles on which the practice of oral 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 needed to practice minor oral surgery. Students are rostered into the oral surgery clinic where opportunity is given to observe and assist.

D&S S 406.4
Oral Pathology
1&2(1L-1P)

This lecture series provides the students with the knowledge and understanding of diagnosis, pathogenesis, clinical and histological 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 tumours and cysts, salivary gland disease, and forensic odontology.

D&S S 409.4
Periodontics
1&2(1L-3C)

A lecture/laboratory/clinic course designed to enable the student to become competent in diagnostic skills and to develop the necessary clinical skills to implement and perform periodontal therapy within the context of a comprehensive dental treatment plan.

D&S S 412.2
Diagnosis
1&2(1L), 2(3C)

Principles of treatment planning are covered in term one to prepare the student for practice in the clinic. In the second term, the student is responsible for performing diagnosis and treatment

planning under the guidance of the clinical faculty of the college. Also, in term two, various oral medicine topics are covered, including temporomandibular disorders and other orofacial pain states.

D&S S 413.2
Local Anaesthesia
1(1L-2P)
Teaches students the basic principles which will allow them to administer local anaesthetics safely and effectively. Proper patient evaluation to identify high risk patients will be stressed. Other topics include pertinent head and neck anatomy, the indications and advantages of regional anaesthesia, and lectures, demonstrations, and practical sessions covering the various regional anaesthesia techniques available to the dentist. Emphasizes the understanding of the pharmacologic actions of local anaesthetics and their side effects and complications. The didactic component is given in second year (D&S S 313). The clinical/practical component is given in third year (D&S S 413).

D&S S 422.2
Basic Internal Medicine
2(1L)
Consists of 16 lectures/seminars. Common medical problems affecting dental management are discussed and illustrated using case reports. Student participation is encouraged.

D&S S 502.2
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.

D&S S 503.2
Oral and Maxillofacial Surgery
1&2(1L-3C)
A continuation of D&S S 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.

D&S S 509.4
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.

D&S S 512.2
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.

D&S S 513.2
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.

D&S S 522.2
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.

D&S S 602.2
Oral Radiology
1(3C)
For course description see D&S S 502.

D&S S 603.2
Advanced Oral and Maxillofacial Surgery and Management of Medical Emergencies
1(1L-3C)
A continuation of D&S S 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.

D&S S 609.2
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.

D&S S 612.2
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.

ORAL BIOLOGY

Four Year D.M.D. Program

O BIO 214.2 (Formerly O BIO 206)
Oral Histology and Embryology
1(2L)
A lecture and laboratory course that studies the development, histology and function of oral structures that has 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 perioral regions.

O BIO 225.2 (Formerly O BIO 205)
Dental Anatomy and Occlusion
1(4L/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.

O BIO 314.4 (Formerly O BIO 316)
Oral Microbiology, Immunology and Physiology
1(2L), 2(1-5L)
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.

O BIO 325.4 (Formerly O BIO 305)
Dental Anatomy and Occlusion
1(1L-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.

Five Year D.M.D. Program

O BIO 606.2
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.

RESTORATIVE AND PROSTHETIC DENTISTRY

Four Year D.M.D. Program

R&P D 220.4 (Formerly R &P D 215)
Operative Dentistry
1(2L-4P), 2(1L-2P)
This is a pre-clinical 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.

R&P D 221.2 (Formerly R&P D 246)
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.

R&P D 230.2
Removable Prosthodontics
2(1L-2P)
A pre-clinical lecture/ demonstration/ laboratory course in which students will undertake laboratory exercises relating to technical procedures involved in the fabrication of removable prostheses.

R&P D 320.4 (Formerly R&P D 315)
Operative Dentistry
1(1L-2.5P), 2(1L-3C)
Term I consists of review material and a six week competency performance exam to prepare students for patient treatment in Term II. 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.

R&P D 330.4 (Formerly R&P D 304)
Removable Prosthodontics
1&2(1L-2.5P)
A pre-clinical/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.

R&P D 340.4 (Formerly R&P D 325)
Fixed Prosthodontics
1&2(1L-2.5P)
A pre-clinical 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.

R&P D 350.2
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.

Five Year D.M.D. Program

R&P D 404.4
Removable Prosthodontics
1&2(1L-3P)
Lecture/seminar sessions in clinical application of complete and partial denture theory. Clinical practice in complete and partial denture therapy.

R&P D 415.4
Restorative Dentistry - Operative Dentistry III
1&2(1L-3C)
Lecture, laboratory and clinical sessions introduce various clinical procedures. Techniques for treatment of teeth with caries, traumatic injury or developmental defects are discussed. Biological factors in tooth restoration, diagnosis, treatment planning and material selections as related to operative dentistry are introduced. During the clinical sessions the student, under supervision, will practice the behavioural and the technical aspects of treatment and patient management.

R&P D 425.4
Fixed Prosthodontics
1&2(1L-3C)
Lectures and preclinical sessions to provide additional experience preparing teeth for full and partial coverage restorations in Term 1 as well as prepare for the transition to clinical treatment. Term 2 emphasizes clinical procedures and techniques through lectures and patient treatment.

R&P D 435.4
Endodontics
1&2(1L-2C)
Imparts to the students the basic rationale and treatment procedures in endodontic therapy. Teaching mechanisms utilized include lectures, demonstrations, and laboratory exercises. The laboratory exercises are designed to allow the student to visualize the various phases of treatment, thereby developing an understanding of the intricacies of the root canal system and how to achieve endodontic success.

R&P D 504.4
Removable Prosthodontics
1&2(1L-3C)
Lecture/discussion/seminar in complete and removable partial dentures. Clinical practice in complete and partial dentures.

R&P D 515.4
Restorative Dentistry - Operative Dentistry IV
1&2(1L-3C)
Lecture, seminar and clinical sessions to enhance the students 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.

R&P D 525.4
Fixed Prosthodontics
1&2(1L-3C)
Lectures, seminars and clinical practice in fixed prosthodontics with a strong emphasis on treatment planning and sequencing.

R&P D 535.4
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.

R&P D 604.2
Removable Prosthodontics
1(1L-3C)
Seminar/discussion sessions in complete and partial dentures. Clinical practice in complete and removable partial dentures. Introduction to maxillofacial prosthodontics and dental implants.

R&P D 615.2
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.

R&P D 625.2
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.

R&P D 635.2
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.

R&PD 645.2
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

Five Year D.M.D. Program

DENT 210.1 (Formerly DENT 520)
Application of Dental Research to Clinical Decision Making
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
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 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 approval by the Undergraduate Education Committee. 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.