

511-422 Dental Practice 4

Credit Points:	100.00
Level:	4 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Year Long, - Taught on campus.
Time Commitment:	Contact Hours: Up to 368 hours. Lectures, seminars, tutorials (including problem or topic oriented classroom-based tutorials, structured professional and procedural skills sessions and chairside tutorials) and pre-clinical exercises (including student-centred learning, problem-based learning and computer-assisted learning, laboratory and clinical work/activities, participation in outpatient clinics, operating theatre sessions and meetings and independent clerking patients on medical and surgical wards, treatment of advanced periodontal and gerodontic patients), multimedia teaching/learning. Total Time Commitment: Not available
Prerequisites:	Successful completion of all Year 3 subjects.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p><p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> </p>
Coordinator:	Assoc Prof Ivan Darby
Subject Overview:	<p>This subject comprises five modules.</p> <p><i>Restorative Dentistry:</i> General practice - enhancement of clinical skills; implant dentistry - role of implants in treatment planning; endodontics and fixed prosthodontics.</p> <p><i>Growth and Development:</i> Orthodontics - recognition of normal and aberrant growth; skeletal and occlusal patterns; diagnosis of malocclusion, treatment planning and biomechanics of tooth movement; Paediatric Dentistry - effects of physical and psychological growth and development on dental health and treatment of the child; diagnosis and treatment planning for the child. Special Needs Dentistry - short series of lectures on topics including management of the compromised elderly patient, and two clinical sessions.</p> <p><i>Oral Medicine, Pathology and Surgery:</i> Oral Medicine and Oral and Maxillofacial Surgery; Oral Pathology and Oral Radiology.</p> <p><i>Oral Health Sciences:</i> Community Dental Health - the institutions involved in delivery of dental care in Australia and issues related to the dental workforce; application of behavioural sciences to management of common psychological and psychosocial features in dental practice; Cariology and Prevention - a short series of lectures; Periodontics - treatment of severe periodontal cases following on from treatment undertaken in earlier years.</p> <p><i>Advanced Dental Study 1:</i> Background research and literature reviews of a research project which can be undertaken in any of the above areas (in italics).</p>
Objectives:	<p>By the end of the Dental Practice 4 teaching program, the dental student should:</p> <p>(1) Comprehend/Understand:</p>

- a) the applications and use of pharmacological agents in the practice of dentistry;
- b) the differential diagnoses of oral diseases and the use of special diagnostic procedures;
- c) the principles of extra-oral radiography and radiology;
- d) the management of the psychological and psycho-social features encountered in dental practice and dental health education;
- e) the diversity of factors associated with the prevention of dental caries and periodontal disease and the potential for their control;
- f) the delivery and evaluation of dental care in both public and private sectors;
- g) normal and abnormal growth and development, including behavioural growth;
- h) the biomechanical principles of orthodontics;
- i) the theory and practice of total patient care for both dentate and edentulous individuals;
- j) the relationship between oral and general health in elderly persons, and the role of the dental profession in the advocacy of health for all including elderly persons;
- k) the application of the principles of pathology to the oral region;
- l) the less commonly occurring diseases, their development and their effect on the patient.
- m) the principles of research methodology;
- n) the importance of formulating precise objectives for a research project;
- o) the need for a thorough review of the existing knowledge of the research topic;
- p) the necessity for thoughtful planning for the execution of the project; and
- q) the need for the scientific assessment of the results and the presentation of the findings in a manner acceptable to the scientific community.

(2) Be able to:

- a) identify the pathological basis of commonly occurring oral diseases and the oral manifestations of systemic diseases;
- b) describe the clinical, radiographic and histopathological features of oral pathological disorders; and
- c) discuss the aetiology and management of these disorders including the therapeutic and surgical management as well as other treatment modalities. (This will allow the student to apply a sound knowledge of oral medicine, pathology and surgery to the clinical situation.)

(3) Have developed:

- a) the communication and psychomotor skills necessary for providing total patient care in a general dental practice setting;
- b) skills in:
 - critical listening and case presentation;
 - promotion of oral care, in particular sports injuries to the mouth;
 - working as a member of a research team;
 - formulating a hypothesis and in planning how the hypothesis may be tested;
 - planning the execution of the research, in carrying it out, recording data and in analysing results;
 - writing up the project, its oral presentation and in responding to questions;
- c) sound diagnostic skills to identify and describe oral diseases and disorders;
- d) the professional knowledge and self-confidence necessary to propose appropriate treatment plans for oral pathological disorders;
- e) an awareness of the importance of total patient care;
- f) the ability to assess the validity of results and to set these into the overall knowledge of the topic.

(4) Appreciate:

- a) the concept and practice of ongoing total patient care in the prevention, identification, assessment and treatment of oral diseases - as opposed to the episodic management of symptomatic oral problems;
- b) the concept and practice of maintaining oral health;
- c) the need for the dentist to provide leadership in advocating and practising total patient care;
- d) an awareness of the range of differing dental health care needs of individuals and groups within the community and the diversity of the methods needed to provide them;
- e) that dental health is an integral part of general health;
- f) the fundamental role that oral medicine, pathology and surgery have in the prevention or management of oral disease;
- g) that oral disease must be related to the whole patient and not considered in isolation;
- h) the necessity of research as the means of furthering advances in all aspects of dentistry;
- i) a commitment to research in dentistry;
- j) the value of team research;

	<p>k) the need for the lucid and accurate presentation of results; and l) ways of evaluating the findings in research reports.</p>
Assessment:	<p>(1) Restorative Dentistry: Continuing assessment of pre-clinical and clinical work in endodontics and fixed prosthodontics throughout the year; a practical examination of no longer than three hours covering endodontics at the end of the February intensive teaching period; a practical examination of no longer than three hours in prosthodontics at the end of Semester 1. (A pass in each of the practical examinations is required to be able to proceed to clinical practice in Semester 2.) One clinical examination of no longer than 3 hours in general practice dentistry during Semester 2 and continuing clinical assessment throughout the year; one 2-hour written examination at the end of Semester 2; an integrated multiple station Objective Structured Clinical Examination (OSCE) of no more than 20 minutes at the end of Semester 2. (2) Growth and Development: Continuing assessment of pre-clinical and clinical work; one 2-hour written examination at the end of Semester 2; an integrated multiple station OSCE of no more than 20 minutes at the end of Semester 2. (3) Oral Medicine, Pathology and Surgery: Continuing internal assessment consisting of four problem-based multimedia short answer tests of one hour each; One 2-hour written examination at the end of Semester 2; a viva voce examination of no more than 30 minutes at the end of Semester 2; an integrated multiple station (OSCE) of no more than 20 minutes at the end of Semester 2. (4) Oral Health Sciences: One 2-hour written examination at the end of Semester 2; continuing clinical and written assessment; one 30-minute case presentation; an integrated multiple station OSCE of no more than 20 minutes at the end of Semester 2. (5) Advanced Dental Study 1: Assessment (pass/fail) will be conducted at the end of Semester 2 and will be based on an oral presentation of a literature review related to the research project. A pass in each of Sections 1, 2, 3 and 4 is the required pass for an overall pass in Dental Practice 4. Students will be permitted to proceed to clinical work only after having satisfactorily completed the pre-clinical units.</p>
Prescribed Texts:	None
Recommended Texts:	<p>Restorative Dentistry Module:</p> <p>General Practice: Figures KH and Lamb DJ 1995 Primary and Emergency Dental Care: A Practitioner's Guide, Butterworth-Heinemann Medical Hackshaw AK, Paul EA and Davenport ES 2006 Evidence-Based Dentistry – An Introduction, Blackwell Munksgaard Mitchell DA, Mitchell L and Natress B 1999 Oxford Handbook of Clinical Dentistry, 3rd ed, Oxford Mount GJ and Hume RW 2005 Preservation and restoration of tooth structure, 2nd ed, KBS Publishing, Brisbane Mount GJ 2002 An Atlas of Glass-Ionomer Cements: A Clinician's Guide, 3rd ed, Thieme Medical Pub. Smith B, 2007 Planning and Making Crowns and Bridges, 4th ed.</p> <p>Dental Practice Board of Victoria http://www.dentprac.vic.gov.au/info.asp (http://www.dentprac.vic.gov.au/info.asp) (Note: this web site is regularly updated)</p> <p>Endodontics: Walton RE and Torabinejad M 1995 Principles and Practice of Endodontics 2nd ed, Saunders</p> <p>Fixed Prosthodontics: Dykema RW, Goodacre CJ and Phillips RW 1986 Johnston's Modern Practice in Fixed Prosthodontics 4th ed, Saunders Kantorowicz GF (ed) 1993 Inlays, Crowns and Bridges: A Clinical Handbook 5th ed, Wright Roberts DH 1980 Fixed Bridge Prosthodontics 2nd ed, Wright Rosenstiel ST, Land MF and Fujimoto J 1995 Contemporary Fixed Prosthodontics, 2nd ed, Mosby Shillingburg, HT, Hobo A and Whitsett, LD 1994 Fundamentals of Fixed Prosthodontics 3rd ed, Quintessence</p> <p>Removable Prosthodontics: Davenport JC, Basker RM, Heath JR and Ralph JP 1988 A Colour Atlas of Removable Partial Dentures Wolfe Medical Grant AA and Johnson W 1992 Removable Denture Prosthodontics 2nd ed, Churchill Livingstone Johnson DL and Stratton RJ 1980 Fundamentals of Removable Prosthodontics Quintessence MacGregor AR 1989 Fenn, Liddelow and Gimson's Clinical Dental Prosthetics 3rd ed, Wright</p>

Renner RP and Boucher LJ 1987 Removable Partial Dentures Quintessence
 Zarb GA, Boucher CO, Hickey JC and Bolender CL 1990 Boucher's Prosthodontic Treatment for Edentulous Patients 10th ed, Mosby

Implants:

Worthington P, Lang BR and Rubenstein, JE 2003 Osseointegration in Dentistry: An Overview, Quintessence

Growth and Development Module:

Orthodontics:

Athanasίου AE 1995 Orthodontic Cephalometry Mosby
 Graber TM, Rakosi T and Petrovic AG 1985 Dentofacial Orthopedics with Functional Appliances Mosby
 Houston WJB, Stephens CD and Tulley WJ 1992 A Textbook of Orthodontics 2nd ed, Butterworth-Heinemann
 Moyers RE 1988 Handbook of Orthodontics for the Student and General Practitioner 4th ed, Year Book Medical Publishers
 Profitt WR, Fields HW, Ackerman JL, Sinclair PM, Thomas PM and Tulloch JFC 2000 Contemporary Orthodontics 3rd ed, Mosby

Paediatric Dentistry:

* Cameron A and Widmer R 2008 Handbook of Pediatric Dentistry 3rd ed, Mosby Wolfe
 * Shaw L (ed) 1994 Self Assessment Picture Tests in Dentistry: Pediatric Dentistry Wolfe
 McDonald RE, Avery DR and Dean JA 2004 Dentistry for the Child and Adolescent 8th ed, Mosby
 Rugg-Gunn A and Nunn J 1999 Nutrition, Diet and Oral Health Oxford Med Publ
 Scully CM and Welbury R 1994 Color Atlas of Oral Diseases in Children and Adolescents Wolfe

Special Needs Dentistry:

Little JW, Falace DA, Miller CS and Rhodus NL 1997 Dental Management of the Medically Compromised Patient 5th ed, Mosby
 Thornton JB and Wright JT (eds) 1989 Special and Medically Compromised Patients in Dentistry Year Book Medical Publishers

Oral Medicine, Pathology and Surgery Module:

Howe GL 1985 Minor Oral Surgery 3rd ed, Wright
 Howe GL 1990 The Extraction of Teeth 2nd ed, Wright
 Scully CM and Cawson RA 1993 Medical Problems in Dentistry 3rd ed, Wright
 Seward GR, Harris M and McGowan DA 1987 Killey and Kay's Outline of Oral Surgery Vols 1 & 2, 2nd ed, Wright
 Soames JV and Southam JC 1998 Oral Pathology 3rd ed, Oxford University Press
 Wray D, Lowe GD, Dagg SH, Felix DH and Scully C 1999 Textbook of General and Oral Medicine Churchill Livingstone

Surgery:

* Dudley HAF and Waxman B (eds) 1989 An Aid to Clinical Surgery 4th ed, Churchill Livingstone
 Liechty RD and Soper RT 1989 Fundamentals of Surgery 6th ed, Mosby

Oral Health Sciences Module:

Community Dental Health:
 Ministerial Review of Dental Services in Victoria 1986 Vic Govt Print Office
 Burt BA and Eklund SA 1992 Dentistry, Dental Practice and the Community 4th ed, Saunders

Geriatric Dentistry:

Holm-Pedersen P and Løe H 1996 Textbook of Geriatric Dentistry 2nd ed, Munksgaard

Periodontics:

Takei H, Newman MG and Carranza FA Jr 2002 Carranza's Clinical Periodontology 9th ed, Saunders
 OR
 Lindhe J, Karring T and Lang N 2003 Clinical Periodontology and Implant Dentistry 4th ed, Munksgaard
 OR
 Wilson TG and Kornman KS 2002 Fundamentals of Periodontics Quintessence

	<p>Preventive Dentistry: Murray JJ (ed) 1996 Prevention of Oral Disease 3rd ed, Oxford University Press Nizel AE 1989 Nutrition in Preventive Dentistry: Science and Practice Saunders Wahlqvist ML (ed) 1988 Food & Nutrition in Australia 3rd ed, Nelson</p> <p>Cariology: Newbrun E 1989 Cariology 3rd ed, Quintessence Thylstrup A and Fejerskov O 1994 Textbook of Clinical Cariology 2nd ed, Munksgaard</p> <p>*Fejerskov O and Kid E 2008 Dental Caries - The Disease and its Clinical Management 2nd ed, Munksgaard</p> <p>* Indicates Essential Reading</p>
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # Professional communication # Critical analysis and decision making # Advocacy # Counselling # Psychomotor coordination # Observation # Leadership and teamwork # Planning and organisation # Time management # Problem solving # Measurement and recording of research data
Links to further information:	http://www.unimelb.edu.au/HB/2008/subjects/511-422.html
Related Course(s):	Bachelor of Dental Science