

DENT30001 Oral Health Sciences 3

Credit Points:	25
Level:	3 (Undergraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 82 hours of lectures, tutorials, practical work, student-directed and computer-assisted learning Total Time Commitment: Not available
Prerequisites:	Successful completion of all Year 2 subjects.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
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Subject Overview:	This subject comprises two modules. Pharmacology and Pathology: The principles of drug action in the body and the mechanisms of action of drugs in common use in dentistry and medicine, disorders of growth and neoplasia, inflammation and repair, circulatory disturbances, and the special pathology of the major organ systems. Medicine: Common medical problems, methods of diagnosis and treatment and diseases of particular importance to dentists.
Objectives:	On completion of this subject, students should: Comprehend: <ul style="list-style-type: none"> # The principles of the absorption, distribution and elimination of drugs in the body; # The basic mechanisms of drug action; # The pharmacology of the autonomic nervous system; # The pharmacology of drugs used to treat diseases of the cardiovascular and central nervous system; # The pharmacology of local anaesthetics; # The pharmacology of drugs used for the treatment of inflammation. # The use and mechanisms of action of: <ol style="list-style-type: none"> 1 antibiotics, antiviral and antitumour drugs 2 analgesics.

- # The nature of drug interactions;
- # The nature and use of drugs of abuse;
- # The terminology of pathology;
- # The principles and essential information regarding the major types of disease processes, their causes, and the responses of cells, tissues, organs and systems in these disease processes;
- # The morphological and functional characteristics of common and important diseases;
- # The molecular basis of pathological processes;
- # Common presentations of medical disease;
- # Clinical medical terminology;
- # Presentations of medical diseases with oral manifestations;
- # Basic investigations for medical disease;
- # Principles of treatment and prevention of common medical disorders; and
- # The uses and side effects of drugs.

Have developed skills in:

- # Using objective sources of drug information;
- # Communication with patients and in describing diseases.

Have developed observational and organisational skills to:

- # Identify and interpret the macroscopic appearance of disease processes in exposed structures;
- # Cut sections of organs; and
- # Identify and interpret the microscopic appearance of disease processes in cells, tissues, organs and systems;

Have developed an understanding of:

- # Prognosis;
- # The clinical features and natural history of medical conditions; and
- # The possible use of investigations in diagnosis and management of disease.

the ability to formulate possible differential diagnoses;

Appreciate:

- # The relevance of drug action and reaction to dental science;
- # The importance of:
 - 1 the principles of drug action to therapeutics;
 - 2 evaluating clinical manifestations of diseases in terms of disturbances of structure and function.
- # The elements of clinical trial design (single and double blind factors and use of statistics);
- # The responsibility of dentists under the Dentistry and Poisons Act;
- # The capabilities and limitations of special investigations (including clinical pathology, biochemistry and radiology); and
- # The effect of illness on the social, occupational and recreational activities of patients.

Assessment:

Pharmacology: One 1-hour multiple choice written examination mid-semester (8%) and one, 2-hour multiple choice and short answer written examination at the end of Semester 1 (32%). (40%) Pathology: One 2-hour written examination (18%) and one 1-hour practical examination at the end of Semester 1 (9%) and continuous assessment (3%). (30%) Medicine: One 2-hour written examination at the end of Semester 1. (30%) A pass in each Section is required for an overall pass in this subject.

Prescribed Texts:

None.

Recommended Texts:

Pathology:
Robbins Basic Pathology Kumar V, Abbas AK and Fauston N (eds), Elsevier Saunders, 2007, 7th ed

	<p>Pharmacology:</p> <ul style="list-style-type: none"> # Pharmacology and Therapeutics for Dentistry Yagelia JA, Neidle EA and Dowd FJ, 5th ed, Elsevier Mosby, 2004, 5th ed OR # Principles of Pharmacology. The Pathophysiologic Basis of Drug Therapy Golan DE, Tashjian AH, Armstrong EJ, Galanter JM, Armstrong AW, Arnaout RA and Rose HS, Lippincott, Williams and Wilkins, 2004 OR # Pharmacology Rang HP, Dale MM and Ritter JM, 6th ed, Churchill Livingstone, 2007 <p>Medicine:</p> <ul style="list-style-type: none"> # Medicine for Dentists Dimmitt S, University of Western Australia Press, 2003, 2nd ed # Davidson's Principles and Practice of Medicine Boon NA and Colledge NR, Walker BR, Hunter JAA, Churchill Livingstone, 2006, 20th ed # Medical Problems in Dentistry Scully C and Cawson C 5th ed, Elsevier Churchill-Livingstone, 2004, 5th ed
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:	<p>On completion of this subject, students should have developed skills in:</p> <ul style="list-style-type: none"> # Measurement and recording of data; # Identifying and interpreting data; # Communication; # Observation and organisation; # Evaluation.
Related Course(s):	Bachelor of Dental Science