

**REGULATIONS FOR THE DEGREE OF  
BACHELOR OF DENTAL SURGERY<sup>1</sup>  
(BDS)**

*(See also General Regulations and Regulations for First Degree Curricula)*

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**D1** A candidate for admission to courses leading to the award of the Degree of Bachelor of Dental Surgery must show evidence satisfactory to the Board of the Faculty of Dentistry of the ability to understand and profit from the courses which it is proposed to follow.

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**D2** To be eligible for admission to the degree of Bachelor of Dental Surgery, a candidate shall

- (a) comply with the General Regulations and the Regulations for First Degree Curricula; and
- (b) complete the curriculum and have been assessed as having made satisfactory progress in learning and attainment of proficiencies throughout the First, Second, Third, Fourth and Final Year of the curriculum.

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**D3** The curriculum shall extend over not less than five years, including ten academic semesters and such inter-semester learning periods and vacations as may be prescribed, and shall include all assessments as may be prescribed by the Board of Undergraduate Studies, programme directors and departments contributing to the curriculum.

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**D4** To complete the curriculum, all candidates shall complete, in addition to the learning in dentistry prescribed:

- (a) 6 units of courses in English language enhancement;
- (b) 3 units of courses in Chinese language enhancement;
- (c) 3 units of courses in humanities and social sciences studies for science and engineering students; and 3 units of courses in culture and value studies or in other Bachelor's degree curricula of the University; and
- (d) 3 units of courses in information technology.

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**D5** Candidates shall select their non-core courses (under humanities/social sciences studies, or culture and value studies, or cross-disciplinary elective courses offered outside the Faculty) in accordance with these regulations and the guidelines specified in the syllabuses before the beginning of each semester. Changes to the selection of non-core courses may be made during the first two weeks of each semester, and such changes shall not be reflected in the transcript of the candidate. Requests for changes after the first two weeks of a semester shall not be considered, and candidates withdrawing from any non-core courses without permission after the first two weeks of a semester shall be given a failed grade.

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**D6** To complete the curriculum, all candidates shall follow the course in Dentistry and complete the required number of non-core and elective courses of no less than the equivalent of 18 credits as prescribed in the syllabus and shall have been assessed as having made satisfactory progress in assessments and tests of competencies throughout. The course in Dentistry includes, but is not limited to, learning in the basic biomedical sciences, social and behavioural sciences, human diseases and dental clinical sciences.

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<sup>1</sup> These regulations apply to students admitted to the first year of study for the degree of BDS in the academic year 1998-99 and thereafter.

**D7** Self assessment, peer assessment and tutor assessment are used throughout the course to help each candidate in the evaluation of his or her progress in self-directed learning.

Candidates shall be assessed in each semester and during inter-semester periods. Assessment may be conducted in any one or any combination of the following manners: written assignments and assessments or tests; problem-based evaluation exercises; continuous assessment of learning progress and performance; practical and clinical assessments, including tests for the attainment of proficiencies; laboratory work, field work, research and project reports; oral examinations and presentations; or in any other manner as specified in the syllabuses.

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**D8** Assessments are conducted throughout the course (both during semesters and inter-semester periods) and are not only conducted at the end of each semester.

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**D9** Courses, or course components, in which a candidate is given a failed grade or in which a candidate has been assessed as having failed to make satisfactory progress, shall not be counted towards the degree, but shall be recorded on the transcript of the candidate.

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**D10** Candidates who fail to complete satisfactorily, or who fail to make satisfactory progress in, the course(s) in any academic year may be required to repeat a year of study in the manner specified by the Board of Faculty or be recommended for discontinuation of study. Candidates who are required to repeat a year of study may be required to continue learning in parts of the courses in which they have been assessed as having made satisfactory progress. In such an event the assessment outcomes obtained in both years shall be recorded on the transcript of the candidate.

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**D11** Before a candidate may be considered to have completed the course in dentistry, the candidate concerned shall bring evidence that he or she will have completed his or her twenty-first year of age by June 30 of the calendar year in which the assessment of his or her progress in learning and tests for his or her attainment of proficiencies are due to finish.

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**D12** A candidate who is unable because of his or her illness to be present for any assessment exercise may be permitted to be assessed at another time. Any application for such permission shall be made within two weeks of the first day of absence from any assessment exercise.

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**D13** Advanced standing may be granted to candidates in recognition of studies completed successfully elsewhere. The amount of advanced credits to be granted shall be determined by the Board of the Faculty, in accordance with the following principles:

- (a) under the provisions in Statute III.5, a minimum of one-year study at this University shall be required before the candidate is considered for the award of the degree; and
  - (b) satisfactory progress must be maintained throughout each academic year of study in the course in Dentistry of this University.
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**D14** The degree of Bachelor of Dental Surgery may be awarded with Honours, but a candidate shall not be eligible for honours if he or she has been required to repeat any part of the course.

## **SYLLABUS FOR THE DEGREE OF BACHELOR OF DENTAL SURGERY**

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### **A. PROGRAMME STRUCTURE**

The course in Dentistry is an integrated course in which the study of basic biomedical sciences, of social and behavioural sciences and of human diseases relevant to dental practice forms the foundation for and continues alongside the study of clinical dental sciences.

Learning takes place through problem-based learning tutorials, self-directed study, seminars, demonstrations, practical classes, field trips, ward teaching and supervised clinical care for patients, with a limited number of key lectures to supplement the learning opportunities listed above. Whenever practicable students are rostered to small groups.

The course extends over five academic years and is divided into ten semesters and the inter-semester periods. Each semester contains two modules. Each module is numbered. The course thus consists of Dentistry-1 to Dentistry-20. Each module is also coded. DENT1011 and DENT1012 are the First and Second modules in the First semester of the First Year; DENT1021 and DENT1022 are the First and Second modules of the Second semester of the First Year. DENT2011, 2012, 2021 and 2022 are the modules in the Second Year; DENT3011, 3012, 3021 and 3022 are the modules in the Third Year; DENT4011, 4012, 4021 and 4022 are the modules in the Fourth Year; DENT5011, 5012, 5021 and 5022 are the modules in the Fifth Year. Learning objectives are written for each year of the course to guide students in their study during the four modules. Detailed schedules will be provided for each module and for inter-modular and inter-semester dental/clinical skills periods. These, and further specific instructions to students, are made available by the Faculty Office, 6/F Prince Philip Dental Hospital.

Self-assessment, peer assessment and tutor assessment are used throughout the course to help each student in the evaluation of his or her progress in self-directed study. Formal assessments are conducted in each of the ten semesters and during inter-semester periods.

Attendance is required for tutorials, seminars, demonstrations, practical classes, field trips, ward teaching and clinical care sessions. A satisfactory performance in formal assessments and learning generally, including oral health care delivery for patients, is required for continued progress throughout the course to graduation.

Recommendations are made throughout the course for appropriate learning resources to be consulted by students.

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### **First, Second, Third, Fourth and Fifth Years** (encompassing modules Dentistry-1 to Dentistry-20)

As progress is made from the First to the Fifth Years students' exposure to the clinical dental sciences progressively increases. However while the learning of the basic biomedical sciences, the social and behavioural sciences and the study of human disease relevant to dentistry may reduce, it does not cease at any stage throughout the course. Use is made of problems and scenarios relevant to Dentistry to stimulate the learning in appropriate subject areas.

### **Basic Biomedical Sciences Relevant to Dentistry**

Learning takes place of gross topographical anatomy, microanatomy, oral anatomy, neuroanatomy and pre-natal and post-natal developmental growth of head and neck structures. The basic principles of biological and biophysical chemistry, including biologically active molecules, metabolism, oral tissue function and immunology, are studied. Cellular and tissue physiology in so far as they help in the understanding of body systems are studied. An understanding of the principles of drug action, with emphasis on those drugs encountered in dental care delivery, is fostered.

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### **Social and Behavioural Sciences**

Psychology and sociology relevant to oral health, behaviour and oral health care are studied. Learning takes place on communication in relation to oral health promotion and oral health care.

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### **Human Disease**

Learning takes place of basic pathological processes – tissue injury and healing, inflammation and infection, tumour growth and immunology – relevant to dentistry. The behaviour and role of microorganisms – bacteria, fungi, viruses, parasites – in the causation of human diseases relevant to dentistry are studied. The principles and practice of medicine in the management of human diseases relevant to dentistry are studied and learning takes place of basic surgical principles and the surgical management of human diseases relevant to dentistry. Particular emphasis is placed on appropriate and effective communication between medical and dental professional colleagues in the delivery of oral health care to medically compromised patients. Students are expected to be able to demonstrate and to maintain proficiency in cardio-pulmonary basic life support.

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### **Clinical Dental Sciences**

Learning occurs progressively across the range of clinical dental sciences and associated subjects which include: cariology and the epidemiology, causes, prevention and management of dental caries including the restoration of teeth for children and adults; pulp disease, dental trauma and endodontic treatment; periodontology and the epidemiology, causes, prevention and management of periodontal diseases; cranio-facial growth and development, including dental malocclusions and their prevention, diagnosis and orthodontic management; oral diagnosis, including oral radiology; oral diseases, including their causes, clinical presentations, surgical pathology and surgical management; oro-facial pain and its control, including sedation and anaesthesia; biomaterials in relation to oral health care; dental public health including the provision and administration of oral health care, ethics and jurisprudence; oral rehabilitation to acceptable function; dental technology.

A series of curriculum streams runs throughout the learning of the clinical dental sciences from the first year to the fifth year. These include: diagnosis; prevention; cardio-pulmonary resuscitation and the management of emergencies; pain (and its control); the masticatory system; diseases; professional behaviour and communication; practice management and clinical skills.

A set of competency statements, covering the competencies expected of a graduate from the undergraduate curriculum of the Faculty of Dentistry, The University of Hong Kong, has been produced and will be available to students. These competencies are grouped into the following ten subdivisions:

- (a) Professionalism;
- (b) Ethics and jurisprudence;
- (c) Communication;
- (d) Patient assessment and diagnosis of disease;
- (e) Treatment planning;
- (f) Delivery of oral health care;
- (g) Management of dental and medical emergencies and complications arising from the delivery of oral health care;
- (h) Oral health promotion and health education;
- (i) Oral health care delivery environment; and
- (j) Oral health care delivery system in the HKSAR.

Where testable, it is expected that students must be assessed as having achieved the stated competencies before graduation from the undergraduate course in Dentistry.

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## **B. SYLLABUSES**

### **First Year**

<b>DENT1011</b>	<b>Dentistry - 1 (9 credits)</b>
<b>DENT1012</b>	<b>Dentistry - 2 (9 credits)</b>
<b>DENT1021</b>	<b>Dentistry - 3 (12 credits)</b>
<b>DENT1022</b>	<b>Dentistry - 4 (12 credits)</b>
<b>DENT1030</b>	<b>Dental/Clinical Skills (9 credits)</b>

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### **ECEN1301 Oral English for dental students (3 credits)**

The main focus of the course is on building up students' confidence in public speaking in English. The specific objectives are to develop or enhance students': (1) tutorial-oriented oral skills in the areas of discussion and debate; (2) seminar-oriented oral presentation skills, including the ability to do computer-assisted presentations and (3) familiarity with medical and dental terminology. Assessment will be based on two oral presentations.

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### **CDEN1001 Practical Chinese language course (3 credits)**

The course is designed to introduce practical Chinese writing skills; the standardized form and different scripts of Chinese characters; letter-writing: official, business and personal letters; office documents: notices, announcements, minutes and reports; the art of public speaking; communication skills; the language of Chinese dentistry journals; and Chinese culture.

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### **YITC1001 Foundations to information technology (3 credits)**

Please refer to the syllabus for this course under the "Broadening Courses" section.

**Second Year**

<b>DENT2011</b>	<b>Dentistry - 5 (12 credits)</b>
<b>DENT2012</b>	<b>Dentistry - 6 (12 credits)</b>
<b>DENT2021</b>	<b>Dentistry - 7 (12 credits)</b>
<b>DENT2022</b>	<b>Dentistry - 8 (12 credits)</b>
<b>DENT2030</b>	<b>Clinical Skills (6 credits)</b>

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**ECEN2302 Clinical oral English for dental students (3 credits)**

This course focuses on the English communication skills that second year student dentists need in order to conduct clinical tutorials with their dental teachers, and to make clinical case study seminar presentations. Students will learn how to offer differential diagnoses of a patient's condition, and to propose a treatment plan. The course will target the ability to offer tentative and balanced judgements; consider alternative options; cite and criticize published work, and offer criticism and support of ideas discussed. Assessment will be based on a simulated clinical tutorial, and a group clinical case study seminar presentation.

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**Broadening course in core humanities/social sciences (3 credits)**

Students will be required to select one course from within this category of broadening courses.

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**Third Year**

<b>DENT3011</b>	<b>Dentistry - 9 (12 credits)</b>
<b>DENT3012</b>	<b>Dentistry - 10 (12 credits)</b>
<b>DENT3021</b>	<b>Dentistry - 11 (12 credits)</b>
<b>DENT3022</b>	<b>Dentistry - 12 (12 credits)</b>
<b>DENT3030</b>	<b>Clinical Skills (9 credits)</b>

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**Broadening course in culture and value studies (3 credits)**

Students will be required to select one course from within this category of broadening courses.

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**Fourth Year**

<b>DENT4011</b>	<b>Dentistry - 13 (12 credits)</b>
<b>DENT4012</b>	<b>Dentistry - 14 (12 credits)</b>
<b>DENT4021</b>	<b>Dentistry - 15 (12 credits)</b>
<b>DENT4022</b>	<b>Dentistry - 16 (12 credits)</b>
<b>DENT4030</b>	<b>Clinical Skills (12 credits)</b>

**Fifth Year**

<b>DENT5011</b>	<b>Dentistry - 17 (12 credits)</b>
<b>DENT5012</b>	<b>Dentistry - 18 (12 credits)</b>
<b>DENT5021</b>	<b>Dentistry - 19 (12 credits)</b>
<b>DENT5022</b>	<b>Dentistry - 20 (12 credits)</b>
<b>DENT5030</b>	<b>Clinical Skills (6 credits)</b>
<b>DENT5031</b>	<b>Research Project (6 credits)</b>

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(BDS)**

*(See also General Regulations)*

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**D1** A candidate for admission to courses leading to the award of the Degree of Bachelor of Dental Surgery must show evidence satisfactory to the Board of the Faculty of Dentistry of the ability to understand and profit from the courses which it is proposed to follow.

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**D2** To be eligible for admission to the degree of Bachelor of Dental Surgery, a candidate shall

- (a) comply with the General Regulations; and
- (b) complete the curriculum and satisfy the examiners in the First, Second, Third, Final Part One and Final Part Two Examinations.

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**D3** The curriculum shall extend over not less than five years, including such academic semester and inter-semester learning periods and vacations as may be prescribed, and shall include the First, Second, Third, Final Part One and Final Part Two Examinations, the compulsory class examinations prescribed in the regulations, and such other class tests as may be prescribed by programme directors and departments contributing to the teaching included in the curriculum.

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**D4** The first year of the curriculum shall include courses in anatomy; biochemistry; physiology; oral health, behaviour and dental care; and first aid.

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**D5** (a) The First Examination comprising anatomy, biochemistry, and physiology shall be held twice annually, in June and September.

(b) A compulsory class examination in oral health, behaviour and dental care shall be held twice annually during the first year of the curriculum.

(c) All students shall be required to follow the English Enhancement Course in the first year. The standard of performance of each candidate taking the course will be assessed during the year and the candidate shall continue with English language instruction until such time as the candidate has reached a standard acceptable to the Faculty.

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**D6** The second and third years of the curriculum shall include courses in pharmacology; pathology; microbiology; medicine; surgery; therapeutics; paediatric dentistry; orthodontics; conservative dentistry; oral diagnosis and treatment planning; periodontology; local anaesthesia; pain and its control; oral radiology; oral surgery and oral medicine; oral pathology; oral rehabilitation; dental public health; dental materials; dental materials science; dental technology; and oral biology.

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**D7** The Second Examination comprising pharmacology, pathology, and microbiology shall be held twice annually in May/June and September in the second year of the curriculum.

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<sup>1</sup> These regulations apply to students admitted to the first year of study for the degree of BDS before the academic year 1998-99.



**D8** The Third Examination comprising medicine, surgery and dental materials science shall be held twice annually in June/July and September in the third year of the curriculum.

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**D9** Compulsory class examinations in the dental subjects of the second and third years of the curriculum shall be held twice annually during the third year.

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**D10** The fourth year of the curriculum shall include courses in oral pathology and oral microbiology; paediatric dentistry; orthodontics; conservative dentistry; periodontology; radiology; sedation and general anaesthesia; oral and maxillofacial surgery; oral rehabilitation; dental public health; and dental technology.

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**D11** The Final Examination Part One comprising oral pathology and oral microbiology; paediatric dentistry; orthodontics; conservative dentistry; periodontology; radiology; sedation and general anaesthesia; oral and maxillofacial surgery; oral rehabilitation; dental public health; dental materials science; and dental technology shall be held twice annually in June/July and September in the fourth year of the curriculum.

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**D12** The fifth year of the curriculum shall include a continuation of learning and clinical exposure in the main dental subject areas within a programme designed to emphasize the integration and application of knowledge and skills and the delivery of total patient care. Courses in practice management, dental public health, dental ethics, jurisprudence and forensic dentistry will be given.

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**D13** The Final Examination Part Two comprising all aspects of the delivery of dental care to children, adults, and special groups in the community, with emphasis on the testing of clinical competence, shall be held in June/July and December in the fifth year of the curriculum.

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**D14** Before he may present himself for examination a candidate shall satisfactorily complete the courses of study, instruction and practical work leading to the examination and shall achieve a satisfactory standard in the clinical and laboratory work prescribed in the syllabuses; and before he may be admitted to the Final Examination Part Two a candidate shall bring evidence that he will have completed his twenty-first year of age by June 30 of the calendar year in which he presents himself for the Final Examination.

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**D15** A candidate who is unable because of his illness to be present for any part of an examination may be permitted to present himself at the next subsequent examination in the appropriate part or parts. Any application for such permission shall be made within two weeks of the first day of absence from an examination.

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**D16** (a) A candidate who has failed to satisfy the examiners in an examination may be required to discontinue his studies (under General Regulation G12).  
(b) A candidate who has failed to satisfy the examiners and who is not required to discontinue may be required to repeat the whole or any part of the courses prescribed before presenting himself again for examination.

**D17** The examiners in any subject may take into consideration written, clinical or practical work required of the candidates during the course of study, together with results of continuous assessment, class tests and class examinations.

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**D18** The degree of Bachelor of Dental Surgery may be awarded with Honours but a candidate shall not be eligible for honours if he has presented himself more than once for either the Final Examination Part One or the Final Examination Part Two.

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## **SYLLABUSES FOR THE DEGREE OF BACHELOR OF DENTAL SURGERY**

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### **A. PREAMBLE**

The syllabuses which follow are set out in the form of separate subject entries but the course is co-ordinated throughout so as to provide a high level of integration.

Instruction is provided by means of lectures, seminars, tutorials, demonstrations, practical classes and supervised clinical work. Whenever practicable, and particularly in the dental clinical subjects, the teaching is organized on a small group basis.

Class examinations may be held in any subject.

Attendance is required at practical classes, field visits, seminars, tutorials, clinical sessions and ward teaching sessions and a satisfactory standard of performance must be attained in class examinations and in coursework generally for admission to University examinations.

Recommendations will be made from time to time for text books, reference works, and other necessary reading. These recommendations, and detailed schedules of lecture courses, seminars, tutorials and practical sessions will be provided for each subject. These and lists of equipment required will be available to students from the Faculty Office.

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### **B. SYLLABUSES**

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#### **First Year**

The subjects in the first year are: anatomy, biochemistry, physiology, and oral health, behaviour and dental care which are taught over two semesters; and first aid which is taught in the first semester.

**31113 Anatomy**

The course provides the student with the anatomical foundations necessary for the practice of clinical dentistry. It comprises instruction in gross topographical anatomy (during which students dissect the thorax, and the head and the neck), general microanatomy (including the microscopic examination of the major bodily systems), oral anatomy (which deals with all aspects of the structure and development of the oral and dental tissues), neuroanatomy (in which students dissect the human brain) and pre- and post-natal growth (which includes the study of both early embryology and craniofacial biology). Throughout the course, particular emphasis is given to those aspects of anatomy that are relevant to sound clinical practice.

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**32119 Biochemistry**

The course introduces the student to the basic principles of biological and biophysical chemistry and covers the structure and function of biologically active molecules, metabolism and its control, nutrition, the special properties of oral tissues, immunology and medical biochemistry.

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**34100 Physiology**

The course is designed to provide each student with a basic understanding of normal function of the organ system in order that this understanding may be applied rationally to clinical problems in the diagnosis and management of disease states.

The first part of the course covers aspects of cellular and tissue physiology and the peripheral nervous system in so far as they help in the understanding of the function of organ systems. The organ systems covered in the later part of the course are: (a) haematopoietic, (b) circulatory, (c) respiratory, (d) urinary, (e) digestive (including physiology of the mouth), (f) endocrine and reproductive, and (g) nervous.

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**57103 Oral health, behaviour and dental care**

The course is designed as an introduction to behavioural sciences and the common oral health problems. It also provides an introduction to psychology and sociology with emphasis on their relationship to oral health and dental care. Students will be introduced to the dental clinical setting and will be taught the clinical application of the basic science subjects. They will also be offered training in study and communication skills.

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**59100 Cardiopulmonary resuscitation and first aid**

The course is designed to provide training in cardiopulmonary basic life support leading to an examination and certification of competency in cardiopulmonary basic life support. The course also provides an understanding of the principles in the provision of first aid.

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**Second, Third and Fourth Years**

In the second year, students commence their study of dental subjects, which study carries on throughout the remainder of the curriculum. The integrated course in dental subjects beginning in the second year comprises paediatric dentistry, orthodontics, conservative dentistry, oral and maxillofacial surgery, oral radiology, periodontology, oral rehabilitation, pain and its control, sedation and general anaesthesia, dental public health, dental materials, dental materials science and dental technology.

In addition, courses are taught which emphasize the relevance of related disciplines to the teaching of dental clinical subjects. These include applied oral biology, pharmacology, pathology, microbiology which are taught in the second year; medicine and surgery which are taught in the third year; and oral pathology and oral microbiology which are taught in the fourth year.

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### **33200    Pharmacology**

The course is designed to impart a rational understanding of the principles of drug action, with emphasis on those drugs commonly encountered in dental practice. The aim is to provide a sound theoretical foundation for the subsequent study of dental therapeutics.

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### **46200    Pathology**

The course is designed to provide an understanding of the basic pathological processes in a manner suited to the special needs of dental students. The subject matter comprises the general effects of tissue injury, the body's reactions to injury as exemplified in inflammation and infections, disorders of circulation, diseases of the blood, the basic principles of tumour growth, and the basic principles of immunology with emphasis on host defence against infection and on basic mechanisms of disease.

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### **42200    Microbiology**

The course introduces the student to the behaviour and role of micro-organisms as causative agents of human disease; it is integrated with the teaching in immunology provided in the Department of Pathology.

The subject matter includes fundamental aspects of medical bacteriology, virology and parasitology with emphasis on interactions between micro-organism and host.

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### **56200    Applied oral biology**

The course is designed to provide the students with an advanced knowledge in specific areas of the basic sciences which have particular relevance to the practice of dentistry.

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### **56404    Oral microbiology and oral pathology**

The courses are designed to provide an understanding of the microbiology and pathology of oral and dental disease processes.

The courses are closely integrated with the clinical courses in order that students may gain an appreciation of the application of oral microbiology and oral pathology in clinical practice.

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### **41300    Medicine**

The course is designed as an introduction to the principles and practice of medicine (including tropical medicine and clinical pharmacology); emphasis is given to areas of special relevance to dentistry; attendance for a period of instruction and practical work in the wards and out-patients' department is required.

**48300    Surgery**

The course is designed to teach basic principles of surgery and surgical pathology; and to demonstrate clinical surgery. Attendance for a period of clinical instruction and practical work is required.

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**51200/51300/51400    Paediatric dentistry**

The course is designed to provide the student with an understanding of and competence in: the principles of patient management, including: the response of the infant, young child and adolescent to the dental environment; principles and clinical practice of preventive dentistry; the laboratory techniques and clinical practice of restorative dentistry in the primary and young permanent dentitions; management of emergency and long-term treatment of trauma to the dentition and oral-facial structures; the diagnosis and treatment of common diseases of the oral soft and hard tissues in infants, children and adolescents; the dental care of the special needs patient, including the developmentally disabled and medically-compromised child and the adolescent patient.

On completion of the course, the student should be able competently to diagnose common oral conditions in children and to develop an appropriate treatment plan for dental conditions commonly seen in general practice. The student should develop an appreciation of the importance of early intervention, prevention of oral diseases and the delivery of high quality restorative dentistry in children, and the recognition of cases that should be referred to specialists in paediatric dentistry.

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**51202/51302/51402    Orthodontics**

The course is designed to provide the student with an understanding of and competence in: the aetiology, incidence, diagnosis, clinical features and treatment of malocclusions; the benefits of early treatment; the risks and benefits of orthodontic treatment; the importance of an interdisciplinary approach.

On completion of the course the student should be able to manage simple adjunctive treatments in general dental practice and should understand the need for specialist referral. An interest in orthodontics should have been developed which will persist throughout professional life and which will lead some into specialist orthodontic training.

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**52200/52300/52400    Conservative dentistry**

The course is designed to provide the student with an understanding of and competence in: the aetiology, histopathology, diagnosis, prevention and treatment of dental caries and pulpal disease; the clinical use of dental materials to restore individual teeth, e.g. silver amalgam, resin composite, glass ionomer cement, gold and porcelain; the principles and practice of endodontic treatment; and the management of ancillary support staff.

On completion of the course, the student should be competent to accept responsibility for the preventive and restorative care of patients requiring the management of dental caries and its sequelae.

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**57200/57300/57400    Periodontology**

The course is designed to provide the student with a knowledge of the epidemiology of periodontal diseases; their aetiology, histopathology, prevention and treatment; and the integration of the treatment of chronic periodontal disease into comprehensive oral health care.

**59201/59301/59401      Radiology**

The course is designed to provide the student with an understanding of basic radiation physics and radiation biology, with emphasis on hazards and practical protection measures; principles of radiography; principles of interpretation; and the radiology of oral pathology. Practical sessions are used to gain experience of radiographic techniques on manikins and patients, and to develop skills in interpreting orofacial radiographs.

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**59200      Pain and its control**

The course is designed to provide the student with an understanding of the general concepts of pain; the biological aspects of pain in relation to its perception, transmission, interpretation and reactions; and the various aspects of pain and its control in dentistry. The anatomical basis, theory and practice of local anaesthesia are taught within this course.

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**59202/59302/59402      Sedation and general anaesthesia**

The course is designed to provide the student with a knowledge and understanding of the pharmacology, physiology, therapeutics and technology relevant to analgesic, sedative and general anaesthetic techniques. The theoretical basis and practice of inhalation and intravenous sedation are discussed together with that of general anaesthesia, with particular emphasis on the clinical differentiation between sedation and anaesthesia, and on the holistics of safety in patient care and management in sedation and general anaesthesia.

The course also includes instruction in the management of medical emergencies associated with dental practice and in advanced resuscitology. The course is designed and integrated to provide progressive laboratory and clinical experience in the administration of sedation, both inhalation and intravenous, and in general anaesthesia related to dental practice.

The whole course has the secondary objective of providing a sound basis for the safe clinical practice of sedation and a basis for postgraduate training in the practice of anaesthesia for dentistry.

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**59203/59303/59403      Oral and maxillofacial surgery**

The course is designed to provide the student with an understanding of oral diseases, their aetiology, pathology, clinical presentation, diagnosis and principles of management. This course is closely integrated with the course in oral pathology and oral microbiology so that the students may better understand the basic mechanisms of oral disease.

On completion of the course the student should be competent in the diagnosis and management of common oral conditions, the extraction of teeth, the management of complications arising therefrom and the performance of minor oral surgical procedures. Students are expected to have an understanding of the principles of management of oral and maxillofacial surgery conditions including facial injuries, facial deformities and cleft lip and palate, oral malignancy, oral manifestations of systemic disorders and the management of the medically-compromised patient.

**58200/58300/58400      Oral rehabilitation**

The course is designed to provide the student with a knowledge and competence in the aspects of dental care which are aimed at achieving and maintaining the oral health of individuals who have lost some or all of their natural teeth, associated structures and other oral/facial tissues.

The course includes removable prosthodontics (including complete dentures, removable partial dentures, immediate replacement dentures, overdentures, overlay appliances, cleft palate and post-surgical obturators), fixed prosthodontics (including resin-bonded and conventional bridgework), implantology, gerodontology, the principles of occlusion and the management of temporomandibular disorders. It also includes aspects of dental technology, applied dental materials and infection control as they relate to prosthodontic practice.

The need for a multidisciplinary and preventive approach to patient care is emphasized.

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**57202/57302/57402      Dental public health**

The course is designed to provide the student with a knowledge of the theory and practice of preventive dentistry; health behaviour and the provision of health care for the individual and the community and the administration of health care.

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**52202/52302      Oral diagnosis and treatment planning**

The course is designed to enable the student to develop a critical appreciation of a patient's needs, experience in a range of investigations and a knowledge of stabilization procedures related to dental diseases. It also assists the student in the provision of dental health education for his patients, to make decisions in the planning of dental care and to appreciate the resource implications of dental care.

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**53201/53301      Dental materials science**

The course is designed to provide the student with a fundamental knowledge of the principles underlying the mechanical, physical and chemical properties; the structure at molecular, microscopic and macroscopic levels; and the behaviour in all relevant aspects of each class of material used in dentistry in relation to their function, application, handling and service. Included are impression materials; investment materials; model and die materials; dental resin-based restoratives, cements and lining materials; dental alloys; dental amalgams; acrylic and other polymers; porcelain; solders and fluxes; abrasives and polishing materials; waxes; soft and hard tissues; and other relevant materials.

In addition, and as appropriate, are included the processes used in fabrication and finishing; interactions in the biological context of usage (with reference to toxic and other hazards); and the recognition of faults and their causation. Emphasis is placed on the explicability of materials-related phenomena in the context of clinical teaching, on the universality and applicability of the ideas to materials in general (as opposed to products), and on the empowering of the future practitioner to make knowledge-based rational decisions concerning treatment.

At the end of the course the student should be competent in justifying selection criteria and manipulation instructions for all classes of materials relevant to the practice of dentistry.

**50201/50301/50401      Dental technology**

The teaching of dental technology, which is designed to provide the student with an understanding of and practical competence in the techniques of dental technology, is largely integrated in the courses in paediatric dentistry, orthodontics, conservative dentistry, and oral rehabilitation, but aspects of dental technology are also related to the practice of oral surgery and periodontology. By the end of the clinical courses, the student should have sufficient understanding of dental technology to be able to communicate with dental technicians in a meaningful way, and to have a full understanding of the technological implications of a prescribed treatment.

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**Fifth Year**

The fifth year comprises a programme which is designed to enhance clinical knowledge and skills, with an emphasis upon inter-disciplinary patient management and the concept of total patient care. It will include a continuation of learning and clinical exposure in the main subject areas of dentistry.

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**50508      Family practice clinic**

This course enables fifth year students to experience the environment of a well managed, high quality general dental clinic in which everyone strives to form a better understanding of how best to meet patients' needs. Students are expected to work together with ancillary staff to formulate, and then execute to a high standard, relatively simple treatment plans within a friendly and co-operative atmosphere.

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**50509      Dental practice management**

This course, which includes a number of outside speakers, will give students an insight into the knowledge and skills required for working effectively in general dental practice. Students will be required to visit at least two Hong Kong private dental practices. The course will stress the importance of understanding the business and economic aspects of the dental care marketplace; applying business and management skills and principles in the successful operation of a dental practice; establishing and operating effective systems and procedures; and management of and effective interaction with other members of the dental care team.

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**50510      Extended clinical experience**

This component takes place in the various clinical areas in the Prince Philip Dental Hospital and allows students to refine clinical skills on patients whose treatment needs are considered too complex to be carried out in the Family Practice Clinic. The sessions are intended to supplement the training received in the Family Practice Clinic and to increase the students' confidence in undertaking more complex treatments. In addition, students will be given the opportunity to attend a number of wide-ranging consultation and diagnostic clinics run by members of staff from all clinical disciplines in the Faculty.



**50511 Block teaching courses**

These courses take the form of two one-week blocks of teaching in 'Oral and Maxillofacial Surgery' (OMFS) and 'Dental Treatment of Patients with Special Needs'. The aims of the OMFS block are to consolidate the earlier teaching on the principles of maxillofacial surgery, including patient care and orthognathic surgery; to gain further experience in the management of emergencies in oral surgery and of patients undergoing intravenous sedation; and to observe the management of patients attending the Accident and Emergency Unit at Queen Mary Hospital. The goal of the 'Special Needs' block is to build on previously gained didactic knowledge with practical experience which will give the student the confidence to treat patients with special needs in general practice.

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**50512 Elective studies**

This component comprises a three-week elective project to be spent out of Hong Kong at an overseas dental institution. Students are required to submit an individual report of their elective visit within one month of their return to Hong Kong.

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**57502 Dental public health**

In this course the students will conduct community health projects which aim to bridge the gap between theoretical dental public health as taught in the dental faculty and the 'real world' situation. The project takes the form of an extra-mural group exercise in which students select and collect epidemiological information on a particular community dental health issue. The course provides training and experience in problem selection, protocol development, team development and critical appraisal.

Professional ethics and jurisprudence in relation to the practice of dentistry are taught in this course.

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**C. EXAMINATIONS**

Compulsory Class Examinations will be held in the first year in oral health, behaviour and dental care and in the third year in the dental subjects, and may include written work, practical work, and oral examinations.

The First Examination held in the first year comprises three written papers, one paper each in anatomy, biochemistry and physiology, and may include practical and oral examinations in each subject. Distinctions may be awarded in the examinations of each of the three subjects.

The Second Examination held in the second year comprises three written papers, one paper each in pharmacology, pathology, and microbiology and may include practical and oral examinations. Distinctions may be awarded in the examinations in pharmacology, pathology, and microbiology.

The Third Examination held in the third year comprises three written papers, one paper each in medicine, surgery and dental materials science; two clinical examinations, in medicine and surgery; and may include oral examination in any of the subjects. Distinctions may be awarded in the examinations of each of the three subjects.

The Final Examination Part One held in the fourth year comprises written papers, clinical, practical and oral examinations covering the following five groups of subjects:

- (a) Conservative Dentistry
  - (b) Oral Rehabilitation
  - (c) Paediatric Dentistry and Orthodontics
  - (d) Periodontology and Public Health
  - (e) Oral and Maxillofacial Surgery
- Including Oral Pathology, Oral Microbiology, Radiology and Anaesthetics.

Distinctions may be awarded in each of the five subject groups.

The Final Examination Part Two held in the fifth year covers all aspects of clinical dentistry and the delivery of dental care for children, adults and special groups in the community including ethics and jurisprudence; it comprises a written paper and clinical, practical and oral examinations (including presentation of cases treated and projects conducted by students). A distinction may be awarded in this Examination.