SCHOOL OF DENTAL SCIENCE

FACULTY OF MEDICINE, DENTISTRY

AND

HEALTH SCIENCES

COURSE GUIDE 1991
ADDENDA AND CORRIGENDA

It is regretted that so many alterations are necessary. However, nearly all the items on the attached pages were NOT made available to the School Office until after the Course Guide was being printed.

Ian II. Johnson, Editor
December, 1990

Page 4

Senior Lecturers

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  DipFor Odont Lond HMC
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+ SOPHIE ANNE FEIK, MDS Syd.
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IAN HOWARD JOHNSON, MDSc PhD
ERIC CHARLES REYNOLDS, BSc PhD
ALISON MARY RICH, BDS Otago MDSc FRACDS
BARRY LEONARD STEWART, MDSc FRACDS
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Lecturers

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JACEK EDMUND GEBART-EAGLEMONT, MPsych Warsaw PhD La Trobe

* Visiting Professor

JÖHN DAVID JAGO, MDSc Qld Dr PH Col. BDS

# Joint appointment
+
+ Fractional full-time
*
  Part-time.
CLINICAL TEACHERS OF THE ROYAL DENTAL HOSPITAL OF MELBOURNE

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Sue Goldin, BA
Josephine Gottlich, MB ChB DA Witw.
Thomas James Higgins, MDsc (Associate)
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Johannes Jacobus Keur, DDSc Utrecht (Senior Associate)
Ross William King, BDSc (Associate)
David Richard Laing, BPharm GradDipHospPharm (Associate)

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Judith Ann Lewis, MDSc FDSRCS (Associate)

Allan Kevin Mansour, MDSc FDSRCS (Associate)

Mary Morland, MB BS

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# Christopher Bruce Olsen, MDSc FRACDS

Nalliah Paramanathan, BDS Sing.

Amarjit Jaswant Paul, BDS Ceyl.

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Neville Quinn, BDSc MB BS FRCS Lond. Edin. & Irel. FDSRCS FRACDS (Associate)

Colin Douglas Riley, BDSc

Hock Chuan Soh, MDS Sing. (Associate)

Basil Ian Steele, MDSc FRACDS (Associate)

Anton Alexander van Tooren, BDS Witw. (Senior Associate)

Glen Donald Walker, MDSc

William Williamson, MB ChB N.Z. FFARACS

Brian Gordon Wilson, MDSc (Associate)

Iain Malcolm Stewart Wilson, BSc BDS Otago

Janice Wright, DipSocWelf

# Joint appointment
ATTENDANCE

Students, particularly in first year, are expected to attend lectures. Attendance at classes other than lectures is compulsory. In addition, competent performance in carrying out the duties and work prescribed in all subjects is required. Students who fail these requirements may be excluded by the Faculty from attempting any component of assessment, or they may be permitted by the Faculty to attempt any component of assessment only on condition that they present for and pass additional written, oral, practical or clinical tests which may be held outside the period in which assessment usually takes place.

If you are absent from any classes please report the matter to the School Office immediately, with an explanation.

Students who do not submit prescribed work by the due dates during the year may have marks deducted and are also liable for unsatisfactory progress, which may include exclusion from examinations. Applications for an extension of time for submission of prescribed work should be lodged in writing with the Head of the Department concerned.

ASSESSMENT

The details of assessment and the relative weightings of the different modes of assessment for each subject are included in this Guide.

Students should note and read carefully the information contained in the section "Attendance". Students who are excluded from examinations because they have failed to attend classes or because they have not competently performed the duties and work prescribed in a subject may be required by the Faculty to present for and pass additional written, oral, practical or clinical tests before they are permitted to attempt any examination in a subject. Results for examinations will be withheld unless and until any such additional tests are completed to the satisfaction of the Faculty.

Students are advised that they should retain all written work returned to them to assist the examiners where necessary in reviewing and considering all constituent parts of the examination.

At all examinations during the course students may be required to present for orals and/or extra written or clinical tests during the examination periods and students must be available at short notice.

516-018 ANATOMY 1

ASSESSMENT

One 3-hour written examination and a 30-minute practical examination on the whole course following semester 2. Assessment is also based on practical (dissection) class work throughout semester 2.
516-028 ANATOMY 2

Convener To be appointed

Approximately 70 lectures and 80 hours of practical work throughout the year.

SYLLABUS

The structure, organization and development of the human body, with particular attention to the head and neck. Emphasis is placed on clinically important aspects of anatomy.

Anatomy of Head and Neck. Lectures, tutorials and practical classes in semester 1, dealing with the anatomy of the head and neck, including development and applied anatomy.

Histology. Lectures and practical classes in semester 1, dealing with the microscopic structure of the major organ systems in man.

Neuroscience Lectures and practical classes in semester 2, dealing with the structure and function of the nervous system.

LABORATORY WORK

Attendance at practical classes is compulsory.

Anatomy of the Head and Neck. Classes in semester 1 in which the head and neck of the human body are dissected. Students must provide themselves with a set of dissecting instruments, and are required to wear white coats in the dissecting room.

Histology. One class per week for seven weeks of semester 1. Students are supplied with slides and a microscope by the department, or may provide their own microscopes. Microscopes provided by the department are for use within the department only.

Neuroscience Nine practical classes in semester 2 in which the brain and spinal cord are studied in dissections and in histological slides.

ASSESSMENT

A 3-hour written examination at the end of semester 1 and a 3-hour written examination at the end of semester 2.

A 10 minute oral examination at the end of semester 1.

Assessment is also based on practical (dissection) class work throughout semester 1, and a 90 minute written assignment during the week 9 of semester 2.
Welcome to the School of Dental Science,
Faculty of Medicine, Dentistry
and Health Sciences

This Guide is designed to provide you with the essential information you will need to find your way around the dental science course of The University of Melbourne.

Included herein are details of subjects, books you will need to read and general information that will help to make your life as a student an enjoyable experience.

Information which is not included in this guide can be found on the School notice boards on the third floor of the School of Dental Science building, and also on the notice boards of some of the departments in which you will work. There you will find details about assessment, lists for practical classes, timetable details and alterations and other important general information. You should see these notice boards regularly so that you don’t miss out on what’s going on.

For any general enquiries contact the School of Dental Science Office in the first instance, or the Clinical Dean (RDHM).

When in doubt about a subject, consult the convener of the subject in question.
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Ian H. Johnson, Editor
FACULTY OF MEDICINE, DENTISTRY AND HEALTH SCIENCES

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Deputy Dean: Professor G.J.A. Clunie
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Deputy Head: Professor H.H. Messer
Clinical Dean (RDHM): Dr. I.H. Johnson
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DENTAL SCIENCE TEACHING AND RESEARCH STAFF

Staff are listed alphabetically within categories, not according to seniority.

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Glen Donald Walker, MDSc
William Williamson, MB Chb N.Z. FFARACS
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Iain Malcolm Stewart Wilson, BSc BDS Otago
Janice Wright, Dip Soc Welf
GENERAL INFORMATION

INTERVIEWS AND ADVICE

Advice for students is available from a number of sources within the School including academic staff and members of the School Office. Advice on a wide range of matters is available, but particularly those to do with course advice, enrolment, leave of absence, part-time employment, financial assistance, attendance at classes, special consideration and examinations, should be directed to the School Office.

The School of Dental Science Office is located on the third floor of the School of Dental Science building of The University of Melbourne (Telephone 341-0275).

Advice on student matters is also available within the University through Student Counselling, Student Health, Student Finance and Employment Service, "Contact" Information and Referral Service, Careers and Appointments Service and the Student Union.

ABSENCES

Attendance at classes, other than lectures, is compulsory.

If you are absent from any classes please report the matter to the School Office immediately, with an explanation.

PART-TIME EMPLOYMENT

The dental course is a full-time course and the Faculty and School expect that you will develop a balanced programme of studies and other activities. Should it be necessary for financial purposes to obtain part-time employment during the academic year, you must obtain prior approval of the Faculty. (This does not include employment during term vacations and the long vacation). Generally this will be approved within reasonable limits e.g. up to six hours per week and subject to it not affecting your academic progress. Students who do experience financial difficulties are advised to discuss this with School Office Staff and/or the University's Student Finance and Employment Service.

INERRUPTION TO STUDIES DURING THE YEAR - SPECIAL CONSIDERATION FOR EXAMINATIONS

Interruption to, or disruption of studies during the year from any cause (e.g. health, finance, study conditions, personal problems) should be brought to the attention of the School Office at the time. Please realise that the responsibility is yours for reporting any such events.

If factors have affected your studies to a substantial degree you should lodge an application in writing on the available form, prior to the commencement of any examination period, if possible but at least within three days of the examination.

If you are unfit to sit for an examination, or if absent from an examination, you should notify the School Office and lodge an application in writing, with a medical certificate where appropriate, on the available form at the earliest opportunity and within three days of the examination.

If you are ill during the examination, notify the supervisor, and then communicate with the School Office and lodge an application in writing on the available form and a medical certificate as soon as possible and within three days of the examination.

Students who are absent from examinations on approved medical grounds generally have their result withheld and are admitted to a special examination at a later time.
# IMPORTANT DATES

This is a very general outline of events for the year. Refer to the student notice boards for the most up-to-date information.

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**NOTE:**

1. Labour Day, Melbourne Show Day and Melbourne Cup Day are **not** University holidays.

2. Clinical Experience organized by The Royal Dental Hospital of Melbourne is part of the Course and attendance at all rostered clinical activities is **compulsory**.
COURSE REQUIREMENTS

LECTURES

The syllabus for each course of lectures and for practical work is shown in the Details of Subjects.

Most lectures are held in the theatres in the School of Dental Science. Students should consult the timetable for times and venues. However, lectures in science and medical subjects, e.g. Chemistry, Biology, Anatomy, Physiology, Biochemistry, Pathology and Microbiology, may be held in the department concerned or the Science or Medical lecture theatres. Each department notice board (as well as the timetable) should be consulted for information on the subject and for the lecture theatre and practical class rooms assigned.

PASSING BY YEARS

All students in the BDSc course are required to be full-time students and each year of the course must be passed as a unit before a student may enter a higher year. At the discretion of Faculty, credit may be granted for subjects when a student is required to repeat a year. Exemption from part or whole of the requirements in any subject may be granted by a department on special consideration.

ASSESSMENT

For assessment, examinations, special examinations, special consideration, and leave of absence, see the Student Diary and the Regulations in Chapter 4 of the University Calendar.

Supplementary assessment (held in January/February of the following year) may be available to students who fail at the annual examinations, provided that
1. a minimum of 40% has been achieved and the appropriate examination board so recommends on the advice of the appropriate examiners, or
2. the Student Progress Committee so recommends, following consideration of the progress of the student, and that
3. unless there are most exceptional circumstances, only one subject has been failed.

For progress in course, including unsatisfactory progress and suspension, see the Student Diary and Regulations 2.5 and 2.5A in the Calendar.

UNSATISFACTORY PROGRESS GUIDELINES

The following points are important guidelines, used by the School of Dental Science Unsatisfactory Progress Committee, in preparing recommendations for suspension from the course -

- failure in the same or different years of the course on two or more occasions; or
- failure at the first attempt in two or more of the subjects of the course, with evidence of unusually poor performance in one or more of these subjects; and
- the incidence of supplementary assessment in previous years.

The Committee would also take into account personal, financial and study problems experienced by a student.

Students are invited to present personal and/or written submissions at a meeting of the Unsatisfactory Progress Committee. After consideration of the circumstances a student may be admitted to a supplementary examination(s) in the following January/February, or be permitted to repeat the Year, or be recommended for suspension from the course.
PRACTICAL WORK

The following applies for practical work and clinical instruction in all subjects for the BDSc degree:

(a) Students are required to attend practical, clinical, seminar and tutorial classes and to complete all assignments as shown in the details of subjects. Unless excused because of special circumstances, a candidate who fails to complete set work in any subject will be liable to disqualification in that subject. Candidates so disqualified will usually be notified in writing by the Faculty before the written examination, but the Faculty is not bound to give such notification.

(b) Students must reach an adequate standard in practical work and clinical instruction in order to complete the year's work. It is stated in the details of individual subjects whether the candidate's standard is to be assessed by means of a practical examination and/or the work submitted during the year. Students must not expect to be notified before the written examination as to whether their practical work has been judged satisfactory or not.

(c) Assignments (e.g. essays and laboratory or other reports) not submitted to the lecturer or demonstrator in charge by the due date may mean failure to have practical work in that subject counted as completed.

(d) The provisions in these details of subjects and timetables as to the hours of practical work and clinical instruction are intended for general guidance only. Students in the Third to Fifth Years of the course may be required to attend for extended clinical experience. Students should consult faculty and departmental notice boards regularly for teaching commitments.

NOTE

The number of teaching hours within the clinical dental subjects may vary from time to time depending on availability of accommodation and facilities.

CLINICAL EXPERIENCE

In addition to the clinical activities carried out during the teaching terms every candidate for the degree of Bachelor of Dental Science shall, unless exempted by the Faculty, gain experience for a period not exceeding 400 hours in general clinical dentistry. This experience is to be gained during the non-teaching terms and the non-instruction periods of the teaching terms under the supervision of members of the Clinical Dental School of the University or under registered dentists who have been recommended as supervisors by the Faculty. The experience will be gained at such places and during such times as required and approved from time to time by the Faculty.

Each student will be required to submit to Faculty certificates of attendance for the required period.
DENTAL SCHOOL SERVICES AND RULES

COMMON ROOMS

The Dental School provides a common room for students and locker rooms with associated facilities. Students can obtain a locker for their use whilst in the Dental Course on application to the School of Dental Science Office. (The deposit for a key is included in the deposit for use of instruments). The Dental School and Dental Hospital do not permit alcohol to be brought into or consumed in these areas. The students' common room is for the use of dental students only.

TELEPHONE

No outward calls may be made through the Dental School switchboard. Urgent messages of a personal nature for students can be left at the Office of the School of Dental Science.

PHOTOGRAPHIC RECORD OF STUDENTS

All students admitted to the first or later years of the Dental Science course are required to be photographed. Directions for having photographs taken will be given to students following enrolment.

DEPOSIT FOR INSTRUMENTS

Students are required to pay to the School Office a deposit of $75 for the use of instruments and a locker key during the course. This deposit will be returned at the end of the course, less any charge for instruments lost or damaged other than through fair wear and tear.

DENTAL SCHOOL RULES FOR STUDENTS

1. For students attending clinical and pre-clinical areas specific rules are set out on notice boards.

2. Normal timetable hours fall between 8 a.m. to 1 p.m. and 2 p.m. to 5 p.m. on week days. Students are not normally allowed in departmental laboratories or clinics before 8.30 a.m. or after 5.30 p.m. No clinical work is to commence before the student's rostered time of 9.00 a.m. or 2.00 p.m., unless a clinician is present and grants approval.

3. Name badges must be worn in all clinics and laboratories. The standard of deportment in clinical precincts will be consistent with that required for proper patient care.

4. A clean coat or gown of approved style must be provided by the student and worn at all laboratory sessions in the Dental School and at extra-mural classes as specified by the appropriate department.

5. All students undertaking clinical work are required to purchase and wear approved clinical dress as prescribed from time to time by the School.
6. Over-gowns from the Central Linen Store (and other protective gear such as facemasks and gloves) are supplied by The Royal Dental Hospital of Melbourne for use in the clinical areas of the building only. They must be properly disposed of when leaving the clinics.

7. Students are required to conform with rules of dress prescribed from time to time by the School of Dental Science.

8. Students must observe all safety precautions as detailed by the Safety Officers of The Royal Dental Hospital of Melbourne and The University of Melbourne which are posted on departmental notice boards.

9. Students are permitted to carry out clinical work only on registered patients of The Royal Dental Hospital of Melbourne. This work must be approved and carried out under supervision and with the authority of the clinician* in charge of the patient.

10. No drugs, materials or instruments may be brought into the School for use in either the clinics or laboratories unless approved by the School. Students wasting drugs or materials will be required to make up the deficiency.

11. All dental technicians' laboratories, both University and Hospital, are out of bounds to students, except for the purposes of direct communication on specific clinical problems.

12. It is the responsibility of each student to keep his/her laboratory bench area clean and to dispose of all unwanted materials at the end of each session.

13. Clinical records, radiographs or any material relating to a patient's treatment or history are confidential and must not be removed from clinics by students.

14. Instruments and clinical or laboratory materials associated with patient treatment or laboratory exercises, either finished or unfinished, must not be taken out of sections or from pre-clinical or clinical areas without the permission of the appropriate Head of Section.

15. Clinical record books, schedules of requirements or other records of a student's work must not be removed from sections. The special instructions in relation to each year of the course as detailed in the appropriate section record book or schedule of requirements must be observed.

16. Students may enter the theatre and ward areas only when rostered to do so or with the express permission of the duty clinician*.

17. Smoking is not permitted.

18. Students must vacate the premises as required on each evening except on library nights or when given special permission to work in a section by the Head of that Section. On library nights all areas of the building except the access route to the library and the library are out of bounds to students.

* Clinician means any member of the academic staff, either full time or part time of the School of Dental Science.
19. Students must also observe the detailed regulations governing conduct in each
dental section as found on the section notice board.

20. Students who will be absent from clinical classes must report their intended absence
to the appropriate appointments clerk in the section concerned at the earliest
practicable time to enable alternative arrangements to be made for patient care.

21. Students undertaking clinical work must before undertaking such work for the first
time and thereafter from time to time as required undertake Hepatitis B testing as
prescribed by The University or The Royal Dental Hospital and, where considered
necessary, shall be vaccinated against infection.

22. Students are required to observe the requirements in relation to Special Activities
Week which will be prescribed by the Faculty from time to time.

SCHOLARSHIPS, BURSARIES, AND PRIZES

ENTRANCE AWARDS (available for duration of course)

For awards not restricted to dental students see the University Calendar.
For the Tertiary Education Assistance Scheme, see the Student Diary.

JOHN ILIFFE SCHOLARSHIPS IN DENTAL SCIENCE

These scholarships are provided under the Will of the late John Iliffe. Five scholarships
may be awarded each year.

Conditions of Award:

1. A scholarship may be awarded in each year of the course to the student most
proficient in the work of the whole of that year. Selection is made on results
obtained at the Annual Examinations.

2. The School of Dental Science is the judge for the award of these scholarships.

3. In awarding the scholarships, preference is given to candidates who are most
proficient in the subjects referred to by the Testator in his Will as 'Practical Dental
Surgery' and 'Practical Dental Prosthetics'.

4. Should no candidate be adjudged of sufficient merit in any one year of the course,
the scholarships for that year may not be awarded.

SUMMARY OF AWARDS

The table following gives a summary of awards other than those described above which
are available to Dental Science students at undergraduate level. More precise information
concerning these and other awards may be obtained from the Calendar or from the
person indicated in the table.
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<thead>
<tr>
<th>Field</th>
<th>Title</th>
<th>Calendar Reference or information Source</th>
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<tbody>
<tr>
<td>Conservative Dentistry</td>
<td>Frances Gray Prize</td>
<td>R.6.72</td>
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<tr>
<td>Dental Anatomy</td>
<td>E.B. Nicholls Prize</td>
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<tr>
<td>Dental Materials Science</td>
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<tr>
<td>Dental Prosthetics (Course)</td>
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<td>Medal plus books and/or instruments</td>
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<tr>
<td>Dental Prosthetics (Final year)</td>
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<td>Year 3</td>
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<tr>
<td>Dental Science</td>
<td>Ernest Joske Prize</td>
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<tr>
<td>Orthodontics</td>
<td>Mervyn Townsend Memorial Prize</td>
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<td></td>
<td></td>
<td>(Dental Science)</td>
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<tr>
<td>Periodontology</td>
<td>Australian Society of Periodontology Medal</td>
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<tr>
<td>Endodontics</td>
<td>Australian Society of Endodontology (Victorian Branch) Prize</td>
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<tr>
<td>Periodontics</td>
<td>James Monahan Lewis Prize</td>
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<td></td>
<td></td>
<td>(63)</td>
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<tr>
<td>Oral Surgery</td>
<td>William Leslie Elvins Prize</td>
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<tr>
<td></td>
<td>Medal and cash prize</td>
<td>(49)</td>
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</tbody>
</table>

**STUDENTS' LOAN FUND**

See The University of Melbourne Student Diary.

**STUDENT FINANCIAL AID OFFICE**

Bursaries are awarded on the basis of both academic merit and financial need. Applications should be lodged with the Student Financial Aid Office before 9 March. Student loans, approved on the basis of financial need, are also available. Further information and application forms may be obtained from Student Financial Aid (See also the Student Diary).
# LIST OF SUBJECTS

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<td>600-003</td>
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<tr>
<td>610-003</td>
<td>CHEMISTRY (DENTAL SCIENCE)</td>
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</table>

## BACHELOR OF DENTAL SCIENCE

### First Year

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<td>ANATOMY 2</td>
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<tr>
<td>521-029</td>
<td>BIOCHEMISTRY</td>
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<tr>
<td>536-029</td>
<td>PHYSIOLOGY</td>
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### Second Year

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<td>MICROBIOLOGY</td>
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<tr>
<td>531-039</td>
<td>PATHOLOGY</td>
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<tr>
<td>534-039</td>
<td>PHARMACOLOGY</td>
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### Third Year

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<td>511-401</td>
<td>DENTAL STUDIES 4</td>
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<tr>
<td>511-402</td>
<td>ORAL PATHOLOGY</td>
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<tr>
<td>553-411</td>
<td>MEDICINE</td>
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<tr>
<td>556-411</td>
<td>SURGERY</td>
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### Fourth Year

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<tr>
<td>511-501</td>
<td>SELECTED ASPECTS OF CLINICAL DENTAL SCIENCE</td>
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<td>ORAL MEDICINE &amp; ORAL SURGERY</td>
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<td>511-503</td>
<td>CONSERVATIVE DENTISTRY</td>
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<td>511-504</td>
<td>RESTORATIVE DENTISTRY</td>
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## MASTER OF DENTAL SCIENCE

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<tr>
<td>511-602</td>
<td>ORAL PATHOLOGY &amp; ORAL MEDICINE</td>
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<tr>
<td>511-611</td>
<td>ORAL SURGERY</td>
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<td>511-603</td>
<td>ORAL ANATOMY, ORAL HISTOLOGY &amp; ORAL EMBRYOLOGY</td>
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<td>511-604</td>
<td>PAEDIATRIC DENTISTRY</td>
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<td>511-605</td>
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<td>511-606</td>
<td>PREVENTIVE &amp; COMMUNITY DENTISTRY</td>
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<td>DENTAL MATERIALS SCIENCE</td>
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<td>511-609</td>
<td>ORTHODONTICS</td>
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<tr>
<td>511-610</td>
<td>ENDODONTICS</td>
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</table>
DEGREE OF BACHELOR OF DENTAL SCIENCE

BACHELOR OF DENTAL SCIENCE (BDSc) COURSE

Aims

Consonant with the aims, guiding values and objectives of The University of Melbourne, the aim of the BDSc course is:

- to facilitate students to prepare for professional lives that will differ dramatically from today and produce graduates who are able to adapt to change, able to educate themselves throughout their professional lives, maybe even able to change to an expanded or different profession.

Objectives of the Dental Science Course

In passing through the undergraduate curriculum, the dental student should be able to:

1. relate the scientific university education to the technical vocational aspects of dental practice;
2. acquire essential factual knowledge and understanding of principles relating to the health, structure and function of the human body;
3. understand disease processes and mechanisms in structural and functional terms together with a grasp of their aetiology, clinical manifestations, prevention and treatment;
4. acquire a basic understanding of human behaviour and social functioning relevant to health and disease;
5. identify the oral health needs of a community in order of priority and find methods of meeting those needs;
6. induce oral health changes in individual patients and their families, and behavioural changes in the community generally;
7. practise integrated general dentistry and be able to provide oral health care to all sectors of the community;
8. develop skills in problem solving, decision making, programme design and implementation, evaluation and advocacy;
9. design and carry out scientific investigations into clinical, basic science, and community health problems;
10. communicate effectively with patients and their relatives, professional colleagues and members of other health professions;
11. exhibit professional responsibility in relation to both individuals and the community;
12. be a personal exemplar for oral health;
13. have the potential to develop along a number of routes, including general dental practice, specialist dental practice, academic teaching and research, armed services, community health, school health, hospital and institutional dentistry.
DETAILS OF SUBJECTS

Preliminary Reading

Students are advised that they are expected to spend a considerable period of time prior to the commencement of each year reading. Specific references are made in the book lists in this guide.

Lectures, Practical and Research Work

The provisions in the details of subjects as to both the scope of the subject and the numbers of lectures, tutorials, demonstrations, practical, clinical and research work represent the maxima that may be given.

Assessment

The components of assessment, their approximate length and the approximate time of the year when each is to be prepared or submitted, together with the relative value of each in the proportion of total marks, will be published on the relevant notice board(s) no later than two weeks after the commencement of teaching in the particular subject. Certain details are published herein, in lieu of the above.

Books

The books marked with an asterisk are essential books, which students should possess. A complete list of books appears at the end of this Course Guide.
FIRST YEAR

Year Co-ordinator 
Dr. E.C. Reynolds

Deputy Co-ordinator 
Dr. J.G. Clement

OBJECTIVES

By the end of the first year, each BDSc student should have:

1. attained some understanding of basic biological, physical and psychological sciences and knowledge of their terminology;

2. developed the habit of integrated learning, in which scientific, technical and clinical aspects are seen as intimately interrelated and not independent of one another;

3. developed some manual skills and have the ability to carry out elementary clinical procedures;

4. appreciated that dentistry is a human service activity and always exists within a particular social and cultural environment.

511-101 DENTAL STUDIES 1

Co-ordinator 
Dr. E.C. Reynolds

210 hours, including lectures, tutorials and demonstrations in the following topics; Behavioural Science, Biostatistics, Introductory Preventive Dentistry and Community Dental Health, Introductory Clinical Science, Growth Studies and Dental Materials Science, Introduction to Emergency Medicine.

By the end of the Dental Studies 1 teaching program in the first year, the dental student should:

(A) Comprehend:

1. The principles of the aetiology of common oral diseases.
2. The general growth and development of the skull, jaws and dentition.
3. The principles of materials science.
4. The concept of communities and the implications for dentistry.
5. The relevance of psychology to health care and good dental practice.
6. The principles of statistical theory.

(B) Develop:

1. Skill in identification and charting of dental plaques.
2. Ability to analyze skull and dental arch dimensional changes with age.
3. Awareness of the communities' expectations of dentistry and the delivery of dental care.
4. Skills in collating, graphing and interpreting data.

(C) Appreciate:

1. The wisdom of health maintenance rather than the treatment of preventable disease.
2. The responsibility of dentists and the dental profession towards the provision of preventive care and dental treatment of oral disease at individual and community levels.
SYLLABUS

**Behavioural Science**

(a) **Community Studies**

Convener  
Mrs. C.M. James

*Australian Communities and their Social and Health Provisions*. The concept of communities and some major social groups within them and the implications for dentistry. Social provisions including changing concepts of need and individual, family and community responsibility; social organizations and their sponsorship and roles; social values and attitudes and their influences on social and health provisions. Special emphasis in this section will be placed on poverty, income security and social aspects of health care - approximately 26 lectures.

**Professions and Occupations**. The nature of professions and their relationship with the community with special emphasis on health and welfare professions.

(b) **Psychology**

Convener  
Dr. D.G. Andrewes

A course of 25 lectures will provide a basic introduction to psychology. The teaching is organised in blocks covering the following major areas:

*Introduction* - the nature of psychology and its methods of study; *Developmental* - from infancy to old age and including a section on human sexuality; *Cognitive* - the basic information processing functions of perception, memory, learning and thinking; *Personality* - including a discussion of the nature of motivation; *Social Psychology* - the individual and his social interactions, with some reference to the broad patterns of social and cultural influences in society.

**Biostatistics**

Convener  
Dr. G. Clayton

An introduction to statistical methods in relation to biological problems - 10 lectures and 10 tutorials.

**Introductory Preventive Dentistry and Community Dental Health**

Convener  
Associate Professor W.A. McDougall

5 lectures, 15 hours of practical demonstrations. An introduction to the epidemiology of the common oral and dental diseases. A concept of health. A consideration of methods of prevention applicable at both individual and community levels. A consideration of the role of the dentist and of the dental profession towards the individual patient and the community.

**Introductory Clinical Dental Science**

Convener  
Dr. A.M. Rich

5 lectures and 15 hours of practical demonstrations in clinical aspects of dentistry.
Growth Studies
Convener Dr. S.A. Feik

9 lectures, 24 hours of practical demonstrations. Introduction to the study of growth and development -- both normal and abnormal. Skull and jaw growth. A commencement of longitudinal growth studies in selected patients.

Dental Materials Science
Convener Ms. S. Maj


Introduction to Emergency Medicine
Convener Dr. P. Harris

18 hours. An approach to emergency medicine. cardiopulmonary resuscitation; wounds, bleeding, shock, bone and soft tissue injuries; burns and poisoning; bites and stings; medical emergencies.

ASSESSMENT

One 3-hour written examination at the end of semester 1 and a practical examination in First Aid during Semester 1. Students who do not pass the practical examination will be permitted to proceed with the dental course but will be required to undertake the assessment in Second Year and, if necessary, Third Year. The practical examination must be passed before the end of Third Year.

Two 2-hour written examinations at the end of the year. One of the papers at the end of the year will cover Behavioural Science. Practical work set during the year may form part of the overall assessment.

511-102 ORAL ANATOMY 1

Convener Dr. J.G. Clement

Approximately 15 lectures and 13 two hour practical sessions in semester 1.

SYLLABUS

ASSESSMENT

One 1-hour written examination to be held in the examination period following semester one. One practical examination of not more than two hours to be held at some time during the semester. The progress of each candidate will be assessed throughout the course and taken into account in assessing the final result. All candidates may be required to submit to additional test including *viva voce* and/or practical examination.

516-018  ANATOMY \(1\)

**Convener**  To be appointed

Approximately 28 lectures and 39 hours of tutorial and practical work throughout the year.

**SYLLABUS**

The structure, organization and development of the human body. Emphasis is placed on the clinically important aspects of anatomy.

*Introductory anatomy.* Lecture series in semester 1.

*Introductory Osteology (including Radiological Anatomy).* Weekly lectures/practical sessions in semester 2, dealing with the anatomy of the skeleton, with particular attention to the skull.

*Anatomy of Thorax and Abdomen.* Lectures, tutorials and practical classes in semester 2, dealing with the anatomy of the thorax and abdomen.

**LABORATORY WORK REQUIREMENTS**

Attendance at practical classes is compulsory. Students must provide themselves with a set of dissecting instruments, and are required to wear white coats in the dissecting room.

ASSESSMENT

One 3-hour written examination and a practical examination on the whole course following semester 2.

516-019  DENTAL BIOLOGY

**Convener**  Dr. G.R. Campbell

Four lectures per week in semester 1, and two lectures per week in semester 2. Three hours of practical classes per week in semester 1 and two hours of practical classes per week in semester 2.

The subject Dental Biology comprises three components:

1. Cell and Animal Biology
2. Histology
3. Developmental Biology/Embryology
SYLLABUS

CELL AND ANIMAL BIOLOGY

Cell Biology:
The basic tissues of the body. The structure and function of organelles and inclusions within the cell. Introduction to molecular biology of the cell.

Functional Anatomy of a Vertebrate:
The evolutionary history of vertebrates. The functional anatomy of the following organ systems with emphasis on evolutionary adaptation: the skin, skeletal, digestive, circulatory, respiratory, excretory, reproductive and nervous systems. Human evolution.

Parasitic and Venomous Animals:
The morphology and life cycles of Protista and invertebrate animals of medical importance.

Ecological Systems

HISTOLOGY

Light- and electron-microscopic structure of cells and the basic tissues of the human body. Structure of blood vessels, skin and exocrine glands. Emphasis is placed on the relationships between structure and function.

DEVELOPMENTAL BIOLOGY/EMBRYOLOGY

Mammalian reproduction and the formation of germ cells, embryo formative processes, fetal-maternal relationships and the development of the basic tissues of the human body. The development of the cardiovascular system.

LABORATORY WORK

Cell and Animal Biology

Dissection of representative vertebrates; invertebrate animals with emphasis on parasitic or toxic organisms.

Histology, Developmental Biology/Embryology

Attendance at practical classes is compulsory. Students are supplied with slides and a microscope by the department or may provide their own microscopes. Microscopes supplied by the department are for use within the department only.
ASSESSMENT

One 3-hour written examination (50% of final mark) in Cell and Animal Biology and Developmental Biology/Embryology at the end of semester 1. Practical work for this semester will be assessed throughout the course and where performance is judged to be unsatisfactory, a student may be required to pass a 1-hour practical examination.

One 2 1/2-hour written examination (40% of final mark) at the end of semester 2 on Histology and Developmental Biology/Embryology. One 25-minute practical examination (10% of final mark) on work covered during practical classes in semester 2.

610-003 CHEMISTRY (DENTAL SCIENCE)

Convener
Mrs. H.M. Grant

Two lectures per week in semester 1 and three lectures per week in semester 2. Nine 3-hour practical sessions in semester 2.

By the end of the teaching programme in Chemistry, the dental student should:

(A) Comprehend:

1. The elementary theory of chemical bonding in co-ordinated metal ion complexes and in carbon-based biomolecules.
2. The main classes of biomolecules and their functions; the importance of trace transition metals in life processes.
3. The implications of molecular shape in determining biological activity.
4. Physical interactions at macroscopic and molecular levels.
5. Chemical reactions involved in biological transformations.

(B) Develop:

1. Skills to observe chemical reactions and processes using a variety of instrumental techniques.
2. Skills to accurately record chemical observations.
3. Quantitative and qualitative laboratory manipulative skills.
4. Skills to analyse and solve chemical problems.

(C) Appreciate:

1. The importance of rational, critical and independent thought in chemical science and in the understanding of dental science.

SYLLABUS

Nuclear and atomic structure; molecular geometry and shape; elementary descriptions of bonding in molecules of life - carbon compounds. Structure and stereochemistry; isomerism, conformation and configuration, optical activity. Physical properties of organic substances; intermolecular forces, solubility. Reactions of the functional groups encountered in biological molecules; carboxylic acids, amides and esters, alcohols and amines, etc. One and two electron processes, oxidation and reduction (quinones, NAD). Basic chemistry of the biological macromolecules, fatty acids and lipids, carbohydrates and glycosides, peptides, proteins and nucleic acids.

Overview of the structure of biological macromolecules and their interaction with water. The structure of amino acids, oligopeptides and proteins in relation to the functions of proteins as catalysts, carriers of other compounds, structural components and participants in the defence systems of the body. The structure of biological membranes.
Metal ions in biological systems. Electrolyte chemistry and selective transport of sodium, potassium, magnesium and calcium. Transition metal chemistry; characteristic reactions; structures of co-ordination compounds; monodentate and chelating ligand characteristics; geometry and isomerism. Transition metals in biological systems, metalloenzymes and redox and catalytic activity of such complexes, hemes and oxygen transport. Examples of metal-based drugs and metal ion assisted drug transport.

Introduction to aspects of chemical equilibrium, thermodynamics, chemical kinetics and spectroscopy relevant to biological science.


ASSESSMENT

One 1-hour written examination (20% of final mark) at the end of semester 1. One 3-hour written examination (60% of final mark) at the end of semester 2 on material from both semesters.

Practical work assessed continuously throughout semester 2 (20% of final mark).
SECOND YEAR

Year Co-ordinator
Deputy Co-ordinator
Associate Professor W.A. McDougall
Dr. B.L. Stewart

OBJECTIVES

By the end of the second year, each BDSc student should have:

1. attained a basic understanding of the development, form, function and health of the human body;
2. understood the process of enquiry and critical thinking;
3. developed an appreciation of three-dimensional form and an ability to work manually with precision;
4. developed some basic skills in communicating with people in a clinical setting.
5. appreciated the importance of history taking, diagnosis and records, and desirability of maintenance of oral health in patients.

511-201 DENTAL STUDIES 2

Co-ordinator
Associate Professor W.A. McDougall

284 hours, including lectures, clinical and laboratory work in the following topics: Preventive Dentistry and Community Dental Health, Growth Studies, Behavioural Science, Clinical Dental Science and Dental Materials Science.

By the end of the Dental Studies 2 teaching program in the second year, the dental student should:

(A) Comprehend:

1. The principles of the relationship between oral health, behaviour and oral diseases.
2. The processes of somatic, physiological and psychological growth and development.
3. The properties and uses of dental materials.
4. The range of oral functions and the principles involved in protecting oral tissues against diseases and the maintenance of oral functional integrity.

(B) Develop:

1. Skills in understanding and counselling people.
2. Skills in assessing growth and development.
4. Skills in identifying oral functions.
5. Skills in intercepting diseases in the periodontium, enamel, dentine and pulp and the effects of partial edentulousness.
(C) Appreciate:

1. The importance of history-taking, diagnosis and records for success in patient care.
2. The principles of clinical practice.
3. The implications of behaviour in the delivery of dental care.
4. The desirability of the maintenance of oral health in treated patients.

SYLLABUS

(a) Preventive Dentistry and Community Dental Health

Convener Associate Professor W.A. McDougall

8 lectures and 10 hours clinical and laboratory work.

CLINICAL AND LABORATORY WORK


(b) Growth studies

Convener Dr. S.A. Feik

6 lectures and 12 hours practical demonstrations.
A continuation of the longitudinal growth studies of selected patients commenced in first year.

(c) Behavioural Science

Convener Dr. M.V. Morgan

6 lectures and 12 hours tutorials.
Psychological and sociological aspects of patients, dentists and other members of the health team. Behavioural aspects of patient care including the preliminary examination, patient education, and patient co-operation. Stress, anxiety and its control. Sociological factors in the dental and educational environment. Brief introduction to clinical psychology.

(d) Dental Materials Science

Convener Associate Professor J.K. Harcourt

25 lectures and 39 hours practical work.
LABORATORY WORK


(e) Clinical Dental Sciences

34 lectures, 132 hours of laboratory and clinical work.

Oral function

Convener: Associate Professor W.A. McDougall

Tooth contacts, muscle action, jaw movements in mastication, deglutition and speech; sound waves and the vocal tract; taste; oral proprioception; the biochemistry of the teeth, supporting tissues and saliva; the mineralization process; calcium and phosphate metabolism and its regulation.

Oral Protection

Convener: Dr. G Ellender

Protection of oral tissues and functional integrity; protection against damage to enamel and dentine by caries, attrition and erosion. Protection of the dental pulp, periapical tissues and periodontium. Protection against possible sequelae following loss of primary and permanent teeth. Protection against sports injuries. Patient management and clinical records.

CLINICAL AND LABORATORY WORK

Oral Function:

Tooth contacts--areas of contact in centric occlusion; final closing path, examination of wear patterns in deciduous, adult, mature dentitions compared with primitive man; tooth contacts in terminal occlusions, deglutition; taste; oral proprioception. Muscle action and jaw movements in mastication and speech; muscle and joint tests, electromyography, posture and mandibular rest position.

Oral Protection:


ASSESSMENT

Student assessment to be based on (a) a written examination (2 hours) at the end of semester 1 and a written examination (2 hours) at the end of semester 2 (b) assignments related to laboratory and clinical work. Viva voce examinations in special cases.
511-202  ORAL ANATOMY 2

Convener  Dr. J.G. Clement

17 lectures and approximately 17 two-hour practical sessions.

SYLLABUS

The embryology, development and developmental abnormalities of the craniofacial region. The development and molecular biology, histology, ultrastructure and physiology of the oral and dental tissues. Introduction to forensic odontology.

PRACTICAL WORK

1. The microscopic examination of histological sections of dental and oral tissues.
2. The examination of radiographs of the jaw, facial skeleton and temporomandibular joint.

ASSESSMENT

One 3-hour written examination and one practical examination of approximately 2 hours duration for pass and honours at the end of the semester. The progress of each candidate will be assessed during the course and may be taken into consideration in the final examination. Candidates may be required to submit to additional tests, including *viva voce* and/or practical examination.

516-028  ANATOMY 2

Convener  To be appointed

Approximately 60 lectures and 140 hours of practical work throughout the year.

SYLLABUS

The structure, organization and development of the human body, with particular attention to the head and neck. Emphasis is placed on clinically important aspects of anatomy.

*Anatomy of Head and Neck*. Lectures, tutorials and practical classes in semesters 1 and 2, dealing with the anatomy of the head and neck, including development and applied anatomy.

*Histology*. Lectures and practical classes in semesters 1 and 2, dealing with the microscopic structure of the major organ systems in man.

*Neuroscience*. Lectures and practical classes in semester 2, dealing with the structure and function of the nervous system.
LABORATORY WORK

Attendance at practical classes is compulsory.

Anatomy of the Head and Neck. Classes in semesters 1 and 2 in which the head and neck of the human body are dissected. Students must provide themselves with a set of dissecting instruments, and are required to wear white coats in the dissecting room.

Histology. One class per week for ten weeks of semesters 1 and 2. Students are supplied with slides and a microscope by the department, or may provide their own microscopes. Microscopes provided by the department are for use within the department only.

Neuroscience Eight practical classes in semester 2 in which the brain and spinal cord are studied in dissections and in histological slides.

ASSESSMENT

A 3-hour written examination at the end of semester 1 and a 3-hour written examination at the end of semester 2.

521-029 BIOCHEMISTRY

Convener Dr. R.C. Augusteyn

3 lectures per week and 4 hours practical work for 13 weeks.

SYLLABUS

A general Biochemistry course of 39 lectures, building on the thirteen lectures on proteins given in First Year. A general introduction dealing with the thermodynamics of living systems and biochemical adaption, is followed by lectures on the digestion of lipids, carbohydrates and proteins, and an outline of their metabolism in the body. Discussion of the structure and metabolism of nucleotides and nucleic acids with an outline of their role in the synthesis of proteins. Discussion of specialized topics in relation to the structure and function of various carbohydrates, proteins and lipids.

PRACTICAL WORK

A course of experiments designed to reinforce and extend concepts introduced in the lecture course. Specific experiments on Dental Biochemistry will be included.

ASSESSMENT

One 2-hour written examination, at the end of Semester 1, accounting for 90% of the total, on the lectures including material from the first year lectures on proteins. Continuous assessment of practical work throughout the semester (10% of total).
536-029 PHYSIOLOGY

Convener Dr. R. DiNicolantonio

2 lectures per week throughout the year and 2\(\frac{1}{2}\) hours laboratory work per week.

SYLLABUS


LABORATORY WORK

Laboratory experiments supplement the lecture course. Details will be found in the laboratory manual available at the first practical class. Students work in pairs for laboratory work and may nominate their partners for the year. Each student will require a white coat, a name tag, a set of good dissecting instruments, a roll of recording paper and a practical note book: details in the laboratory manual.

ASSESSMENT

Student assessment to be based on:
(a) a mid-year examination (1\(\frac{1}{2}\) hours) and an end-of-year examination (3 hours).
(b) assignments related to laboratory classes/demonstrations/lecture course.
(c) practical note book.

The relevant loading of the different factors fixed for assessing the student's understanding of physiology will be outlined at the beginning of the year and indicated in the laboratory manual.
THIRD YEAR

Year Co-ordinator Dr. S.A. Feik
Deputy Co-ordinator Dr. M.J. Tyas

OBJECTIVES

By the end of the third year, the BDSc student must have:

1. understood the basic principles of the causes and processes of disease affecting human beings and of their treatment with drugs;

2. developed meticulousness in examination and diagnostic method and the ability to make reasoned plans in managing routine problems;

3. the capacity to apply knowledge gained in the physical, sociobehavioural and biological sciences to clinical situations;

4. the capacity to apply epidemiology to solve problems in dental public health;

5. appreciated the concept of total patient care and the dentist's responsibility for the safe and effective management of patients;

6. appreciated that oral health is an integral part of general health.

511-301 DENTAL STUDIES 3

Co-ordinator Dr. S.A. Feik

524 hours, including lectures, clinical and laboratory work and comprised of 4 components--General Conservative Dentistry, Dental Prosthetics and General Clinical Dentistry.

By the end of the Dental Studies teaching program in the third year, the dental student should:

(A) Comprehend:

1. The application of epidemiology to solving dental public health problems.
2. The value and use of topical fluorides and other caries preventive measures.
4. The principles of intra-oral radiography and radiation protection.
5. Use of dental materials in a clinical setting.
6. Basic medical and surgical principles and pain management through the use of local analgesia.
7. The principles of patient management.
8. The principles of conservative management of destructive lesions of the teeth and their supporting structures.
9. The principles of occlusal analysis and complete and partial denture therapy.
(B) Develop:
1. Skills in collection, analysis and presentation of oral health data.
2. Skills in communication, counselling and patient management.
3. Skills in clinical oral examination, diagnosis and treatment planning of simple cases.
5. Psychomotor skills in the conservative treatment of dental caries and periodontal disease.

(C) Appreciate:
1. The needs and difficulties associated with instituting effective preventive programs at an individual and community level.
2. The concepts of total patient care and the dentist's responsibility for the safe and effective management of persons in the dental situation.
3. The need for precision, accuracy and self-evaluation.

SYLLABUS

(a) GENERAL COMPONENT

62 lectures, 16 hours seminars and demonstrations and 52 hours practical work.

Community Dental Health.
Convener Professor F.A.C. Wright

The epidemiology of dental caries, periodontal disease, oral mucous membrane disease, oral cancer and dento-facial deformities (cleft lip, cleft palate and malocclusion); criteria for diagnosis, indices of oral disease and health; the design of epidemiological investigations; selection of samples; examiner reliability; analysis and interpretation of epidemiological data.

Preventive Dentistry.
Convener Associate Professor W.A. McDougall

Mechanisms of action of fluorides in the prevention of dental caries; community attitudes to fluorides; caries activity and prognostication tests; the efficacy of physical and chemical methods of plaque control; patient counselling in preventive dentistry.

Growth Studies and Introductory Orthodontics.
Convener Dr. S.A. Feik

Continuation of the longitudinal growth studies of selected patients. Normal and abnormal skull, jaw and occlusal developments; adaptation of soft and hard tissues to environmental changes. Introduction to aetiology, principles of prevention and early interception of malocclusion and orthodontic techniques.
Radiography and Radiology.
Convener Dr. J.G. Clement


Dental Materials Science
Convener Dr. G. Ellender


Introductory Medical and Surgical Principles.
Convener Dr. P.J.C. de Crespigny

Medical principles: Physical signs by systems--the central nervous, cardiovascular, respiratory, alimentary, urinogenital, endocrine and musculoskeletal systems. Surgical principles: Indications for surgery, surgical infection, antibiotic therapy, wound healing, haemorrhage, fractures and dislocations, cancer. (Continues in fourth year).

Patient Management.
Convener Dr. I.H. Johnson

The influences of social, cultural and family histories on the clinical management of different patients. Introduction to the different management of child, adolescent, adult and the elderly patient and patients with severe illness, physical and/or mental disabilities. Introduction to methods of control of pain and anxiety. Appropriateness of types of treatment for different individuals.

Local Analgesia.
Convener Dr. J.F. O'Grady


(b) CONSERVATIVE DENTISTRY COMPONENT

19 lectures, 8 seminars, and 70 hours laboratory work.

Conservative Dentistry.
Convener Dr. G. Ellender

**Periodontics.**

**Convener**  
Dr. R.H. Hammond

The nature, aetiology and pathogenesis of periodontal diseases. Objectives and principles of clinical management. Treatment planning.

**Endodontics.**

**Convener**  
Professor H.H. Messer

Lecture Programme: Diagnosis and treatment of the exposed vital pulp and the necrotic pulp with and without periapical involvement. Cleaning and shaping of canals. The use of irrigants, chelating agents and intracanal medicaments in root canal therapy. Root filling materials and techniques. Pre-clinical laboratory work: Preparation of teeth for endodontic treatment, access cavities, length determination, cleansing and shaping of canals, root canal filling materials and obturation of canals.

**Paediatric Dentistry.**

**Convener**  
Professor L.J. Brearley

Child dental health as a special discipline. The effects of physical and psychological growth and development on dental health and treatment.

(c) **PROSTHODONTICS COMPONENT**

**Convener**  
Dr. B.L. Stewart

21 lectures, 48 hours of demonstrations and seminars, 80 hours of laboratory work. Applied anatomy and physiology of removable prosthodontics; introduction to removable partial denture treatment. Laboratory techniques in appliance fabricaion; surveyors and surveying; assessment and classification of saddles; partial denture design and siting of components; model duplication; principles of tooth setting; aesthetics; laboratory prescriptions; processing and finishing acrylic appliances; adjustment of occlusion. Clinical techniques, including selection of impression materials and impression taking; registration of jaw relationships; selection of teeth; patient education, recall and maintenance.

(d) **GENERAL CLINICAL DENTISTRY COMPONENT**

12 lectures, 5 seminars, 14 hours laboratory work and 111 hours clinical work. This is an integrated approach to clinical dentistry.

**Diagnosis and Treatment Planning.**

**Convener**  
Dr. G. Ellender

Examination of patient; history taking and data recording; social and cultural attitudes to dental health; patient expectations; treatment objectives and treatment planning. Prognosis. The learning process in relation to wearing of appliances, habituation and adaption. Case histories.
Occlusal Analysis.

Convener  Dr. B.L. Stewart


Clinical Practice.

Convener  Dr. G. Elender

Introduction to the concept of total patient care. Examination, diagnosis, treatment planning. Clinical management of carious lesions and periodontal diseases in selected patients. Treatment of patients requiring partial dentures.

ASSESSMENT

At the end of the year a 3-hour written examination covering the General and Conservative Dentistry Components, and another 3-hour written examination covering the Prosthodontics and General Clinical Dentistry Components. Candidates may be required to submit to further clinical and/or laboratory examinations of no more than 8 hours in total and a viva voce examination of no more than half an hour. Assessments of each student's clinical, written and practical work are also made throughout the year and are assessed for the final result.

526-039 MICROBIOLOGY

Convener  Mrs. E. Reade

52 lectures and 37 hours practical work is oriented to the following objectives:

SYLLABUS

1. To give students a basic knowledge of micro-organisms and their role in human infection, with particular emphasis on the mechanism of microbial injury of hard and soft tissues of the oral cavity and respiratory tract.
2. To understand the principles of host resistance, immunity and hypersensitivity, the latter being especially significant in relation to antibiotics and other drugs that are used in dentistry.
3. To inculcate the concept of asepsis in dental practice by examination of the epidemiology of dental disease and the possible pathways of infection in dental practice. In respect to control, the methods for sterilization of dental equipment and disinfection of skin, mucous membranes and surgery fittings are evaluated.
4. To underline the guiding principles and calculated risks of chemotherapy, with special reference to prophylactic use of antibiotics in high-risk patients such as those suffering the effects of rheumatic fever or cardiac defects due to other causes.
5. To outline how microbiology may be used and mis-used in the diagnosis and management of dental diseases and the complications which may follow.

PRACTICAL WORK

Practical work will include exercises directly related to the theoretical content.
ASSESSMENT

A 1-hour written examination, consisting of short-answer or multiple-choice questions relating to lectures and practical work and a 1-hour practical examination will be held in mid-year. The marks will be included in the final assessment. At the end of year, there will be one 3-hour written examination and one 1-hour practical examination. *Viva voce* examination in special cases. There will also be continuous assessment of practical work.

531-039 PATHOLOGY

Convener To be appointed

60 lectures, and 48 hours of practical work.

The course presents major concepts of general pathology (including disorders of growth and neoplasia, inflammation and repair, circulatory disturbances) and a survey of the special pathology of the major organ systems. Also included is pathology of the connective tissues and the effects of failure in major organ systems.

The practical work comprises concurrent study of microscopic and macroscopic examples of the processes under study. Students are supplied with slides and the use of microscopes during practical classes and are required to attend autopsy presentations. Lectures include 4 intended to serve as an introduction to Oral Pathology in fourth year.

ASSESSMENT

Practical work will be assessed throughout the year.

Mid Year: 1½-hour written examination, 1½-hour practical, microscopic and macroscopic.

End of Year: 2-hour written examination, 2-hour practical, microscopic and macroscopic. *Viva voce* examination may be required.

534-039 PHARMACOLOGY

Convener Dr. M.R. Fennessy

50 hours instruction. Approximately 40 hours will be devoted to lectures and the remaining time will be divided between practical classes and tutorials.

SYLLABUS

The course will be concerned with the general principles of pharmacology and with the mechanisms of action of drugs in common use in dentistry and medicine under the following headings:

1. Route of administration, absorption, distribution, metabolism and excretion of drugs.
2. Autonomic nervous system: anatomy and function; drugs affecting cholinergic and adrenergic mechanisms.
3. Drugs affecting the neuromuscular junction.
4. Drugs used in cardiovascular therapeutics.
6. Drugs affecting the central nervous system: anaesthetics, analgesics, psychotropics, etc.
7. Anti-inflammatory drugs.
9. Local anaesthetics.
10. Drugs affecting clotting mechanisms.
11. Drug interactions and toxicology.

ASSESSMENT

A 1 hour written examination consisting of multiple choice type questions will be held mid year. Marks allotted to this examination contribute to 20% of the final mark. The final examination is a 3-hour written examination and will consist of multiple choice type questions and short answer questions. Oral examinations may be required for some students, who will be notified after assessment of the written examination.
FOURTH YEAR

Year Co-ordinator
Dr. R.H. Hammond
Deputy Co-ordinator
Associate Professor V.C. West

OBJECTIVES

By the end of the fourth year, the BDSc student must have:

1. achieved a sound understanding of the principles of medicine and surgery and their employment in dental practice;

2. an understanding of oral health promotion and a sound knowledge of ways by which oral health can be achieved;

3. an understanding of the way the instruments of government work and the ability to evaluate quality of care in the public and private sectors;

4. developed the communication and psychomotor skills necessary for providing total patient care in a general practice setting;

511-401 DENTAL STUDIES 4

Co-ordinator
Dr. R.H. Hammond

611 hours, including lectures, clinical, laboratory, library and research work and comprised of three components - General; Clinical Dental Sciences; and Assignments.

Dental Studies 4 is structured to build on the Dental Studies 3 subject by providing a fuller understanding of clinical dental science and its practical applications with particular reference to the details outlined below.

By the end of the Dental Studies 4 teaching program the dental student should:

(A) Comprehend:

1. The applications and use of pharmacological agents in the practice of dentistry.
2. The differential diagnoses of oral diseases and the use of special diagnostic procedures.
3. The principles of extra-oral radiography and radiology.
4. The management of the psychological and psycho-social features encountered in dental practice and dental health education.
5. The diversity of factors associated with the prevention of dental caries and periodontal disease and the potential for their control.
6. The delivery and evaluation of dental care in both public and private sectors.
7. Normal and abnormal growth and development, including behavioural growth.
8. The biomechanical principles of orthodontics.
9. The theory and practice of total patient care for both dentate and edentulous individuals.

(B) Develop:

The communication and psychomotor skills necessary for providing total patient care in a general dental practice setting.
(C) Appreciate:

1. 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.
2. The concept and practice of maintaining oral health.
3. The need for the dentist to provide leadership in advocating and practising total patient care.
4. 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.
5. That dental health is an integral part of general health.

SYLLABUS

(a) GENERAL COMPONENT

38 lectures, 44 hours tutorials, 81 hours clinical laboratory and 32 hours clinical work.

Research Projects,

Convener Dr. I.H. Johnson

In the fourth year, students will be grouped and this association will continue throughout fifth year. Each group should elect a leader. After allocation of projects, each group should contact the supervisor(s) for further information in relation to the research project and facilities. The School reserves the right to adjust the membership of a group when necessary. A research programme for which 51 hours have been scheduled in fourth year and 30 in fifth year will be allotted to each group.

The duties of the supervisor should include:
(a) A discussion of the aims and objects of the project with the group.
(b) Consulting with the group at regular intervals.
(c) Informing students of the requirements to submit typed reports on the due date.
(d) Checking the style and standard of the typed research report before submission by the student group.

Clinical Oral Therapeutics,

Convener Professor P.C. Reade

Legal requirements of prescribing, packaging and dispensing of medicines, drugs of choice for oral diseases, clinical management of patients receiving medication, drug induced diseases.

Radiography and Radiology,

Convener Dr. J.G. Clement

An extension of the radiography and radiology course in third year and including extra-oral radiographic techniques and radiological interpretation.

Oral Diagnosis and Treatment Planning,

Convener Professor P.C. Reade

A continuation of the diagnosis and treatment planning in third year including special investigations useful in establishing diagnoses, differential diagnosis of oral disorders and the formulating of treatment plans for complex cases.
Applied Behavioural Science
Convener Dr. M.V. Morgan

The course is concerned with applying the behavioural science basis to the management of common psychological and psycho-social features encountered in dental practice and in dental health education. The course covers: the dentist as a facilitator of behavioural change; interaction with patients under non-aversive conditions; dental anxiety and development of dental phobia; dentists as health educators; dental health education models; and fear arousal, and persuasion in health education.

Preventive Dentistry
Convener Associate Professor W.A. McDougall

Control of plaque formation and activity. Dynamic concepts of hard tissue metabolism. Demineralization and mineralization of the early carious lesion, factors influencing rates of ion exchange and crystallization, protective agents in foods, occlusal sealants, oral clearance times, intra-oral monitoring of plaque pH and crevicular Eh, control of gingival microflora.

Community Dental Health
Convener Professor F.A.C. Wright

This course is concerned with developing an appreciation of the diversity of institutions involved in the delivery of dental care in Australia, and more particularly, Victoria, and the methods by which the delivery of dental care can be evaluated. The lecture/seminar programme includes an introduction to the structure of both public and private sector delivery of dental care; the characteristics of the methods by which care is delivered; frameworks for the evaluation of the delivery of dental care at the individual service, patient and community levels, and problems of applying methods of evaluation of dental care delivery programmes. A fieldwork programme includes the in-depth study of both public sector dental delivery programmes and visits to private sector dental practices.

Growth Studies
Convener Dr. S.A. Feik

A continuation of the longitudinal growth studies of selected normal patients and patients showing abnormalities of growth and development including behaviour.

Applied Basic Sciences
Convener Dr. E.C. Reynolds

A series of seminars and demonstrations of the application of basic sciences to the understanding of oral health problems and their management.
(b) CLINICAL DENTAL SCIENCES COMPONENT

56 lectures, 40 hours seminars, 86 hours laboratory work and 156 hours of clinical work.

**Conservative Dentistry.**

Convener Dr. G. Ellender

A continuation of the operative dentistry studies of third year with emphasis on the determination of operative procedures appropriate for total patient care.

**Periodontics.**

Convener Dr. R.H. Hammond

The establishment and maintenance of periodontal health in patients with gingivitis and periodontitis.

**Paediatric Dentistry.**

Convener Professor L.J. Brearley

Principles of restorative procedures in primary teeth.

**Orthodontics.**

Convener Associate Professor V.C. West

Biomechanical aspects of orthodontics.

**Endodontics.**

Convener Professor H.H. Messer

Clinical management of straightforward endodontic problems.

**Oral Medicine.**

Convener Dr. A.M. Rich

Lectures and clinical instruction in the diagnosis of disorders of the oral soft issues, facial skeleton and temporomandibular joints, the management of these disorders by other than surgical procedures, oral manifestations of systemic disease, special aspects of chronic oro-facial pain.

**Oral Surgery.**

Convener Professor P.C. Reade

The surgical anatomy, diagnostic features, techniques and instrumentation applied to the extraction of teeth. Management of and pain control for patients requiring minor oral surgery.
Removable Prosthodontics.

Convener Associate Professor J.K. Harcourt

The prosthodontic needs of the community. Communication in prosthodontics, technical assistance and prescription writing. Oral health and prosthodontic treatment, prevention, tissue reactions to appliances. The terminal dentition, assessment and treatment by immediate denture therapy; surgical, laboratory and clinical aspects; bone remodelling and its control. Removable prosthodontics, assembling components and designing relative to oral health, function and aesthetics; requirements of abutments and supporting tissues. Introduction to cleft palate and speech pathology treatment.

General Practice.

Convener Dr. M.J. Tyas

A continuation of the clinical practice begun in third year with the total care of selected patients in a general clinical practice environment. The concept of multidisciplinary, life-long (longitudinal) care versus episodic dental care is emphasised.

Selected patients of the Royal Dental Hospital of Melbourne will receive total care including the following:

Examination, diagnosis and treatment planning (E.D.T.P.); preventive procedures such as oral hygiene instruction to help establish effective home care, application of fluorides, placement of fissure sealants, dietary counselling; periodontics including scaling and cleaning, removal of overhangs, adjustment of partial dentures, provision of aids for home care; conservative (operative) dentistry including use of amalgam, composite resin, glass ionomer cement and gold materials; prosthodontics including provision of partial and complete artificial dentures, mouthguards and denture repairs.

(c) ASSIGNMENTS

A scheduled period of 3 hours per week to a total of 78 hours for carrying out library work associated with the preparation of assignments for Dental Studies 4.

ASSESSMENT

One 2-hour mid-year written examination, and two 3-hour written examinations at the end of the year. Candidates may be required to submit to further clinical, laboratory and/or viva voce examinations. Assessments of each student's written and practical work are also made throughout the year and are considered in assessing the final result.

511-402 ORAL PATHOLOGY

Convener Dr. B.G. Radden

20 lectures and 50 hours of tutorial and practical class work.

This series is an extension of the Pathology Course in third year with special reference to the pathology of the oral and related structures, systemic influences on the development of oral and dental structures, the pathology of teeth and their supporting structures, the pathology of the jaws, the salivary glands, temporomandibular joints and associated structures due to local and distant causes. The pathology of oral diseases will be correlated with clinical and radiological features.
ASSESSMENT

One 3-hour written examination at the end of the year. Candidates may be required to submit to further clinical, laboratory and/or *viva voce* examinations. Assessments of each student's written and practical work are also made throughout the year and are considered in assessing the final result.

553-411 MEDICINE

Convener  Dr. P.J.C. de Crespigny

30 lectures and 30 hours of tutorials throughout fourth year.

SYLLABUS

The course is designed to achieve two objectives: first, to provide information about common medical problems, which will enable the dentist to recognise common diseases and to have some understanding of the methods of diagnosis and treatment; secondly, to provide detailed information on diseases of particular importance to dentists. Such diseases include bacterial endocarditis, hepatitis, bleeding diseases and acute and chronic cardiac and respiratory disorders. The course of lectures and tutorials will be supplemented by clinical notes which outline various topics and emphasise areas of difficulty or of particular importance.

ASSESSMENT

One 2-hour written examination and a clinical examination at the end of the year.

556-411 SURGERY

Convener  Mr. R.T. Judson

18 lectures given in The Royal Melbourne Hospital and 15 clinical demonstrations of 1½ hours duration at The Royal Melbourne Hospital. The aim of the course is to introduce students to the general principles of surgery as applied to the head and neck in particular.

SYLLABUS


ASSESSMENT

A 2-hour written examination at the end of the year. Some students may be required to submit to an oral examination.
FIFTH YEAR

Year Co-ordinator
Dr. G. Ellender

Deputy Co-ordinator
Dr. A.M. Rich

OBJECTIVES

By the end of the fifth year, the BDSc student must be able to:

1. manage competently each patient as an individual person with particular needs and expectations in health;
2. deal in a rational manner with all common problems in clinical dentistry;
3. design and implement public health programs, and advocate the importance of dentistry within health services;
4. communicate effectively with patients, other health workers, the public, community groups and statutory bodies;
5. evaluate scientific literature and data relevant to dentistry;
6. accept the legal, ethical, personal and social responsibilities of dentists.

ASSIGNMENTS

A scheduled period of 3 hours per week to a total of 78 hours for carrying out library work associated with the preparation of assignments in Fifth Year.

511-501 SELECTED ASPECTS OF CLINICAL DENTAL SCIENCE

A total of 229 hours including lectures, seminars, clinical, practical and laboratory work.

By the end of the Selected Aspects of Clinical Dental Science teaching in the fifth year, the dental student should:

(A) Comprehend:

1. A range of dental science topics which are not peculiar to any one of the currently recognized dental specialities, but which are necessary for a rounded knowledge of dental science and practice.
2. Knowledge of the behavioural and management aspects of patients with disabilities, complicated psychological or social histories, problems of anxiety, pain or pain control, or physical handicaps and of the homebound, hospitalized, institutionalized and the aged.
3. Knowledge of the management of congenital or acquired disorders of oral function.
4. Diagnosis, radiology and treatment planning for patients with complex problems.
5. Knowledge of the planning and administration of the delivery of dental care and oral health maintenance at both the community and the individual practice levels.
6. The relevance of basic sciences to the care of patients and the necessity for continued research to improve all aspects of dental care.
(B) Develop:

1. Skills to care for patients with any of a wide range of disabilities.
2. Ability to diagnose difficult and/or complicated oral conditions.
3. Ability to care for patients with disorders of oral function.
4. Some skill in carrying through a research project.
5. Skill in helping patients to maintain oral health.

(C) Appreciate:

1. The diversity of handicapped people within the community and the responsibilities and problems in delivering dental care to them.
2. The necessity for accurate diagnosis and planning before commencing the care of patients with advanced or complicated problems.
3. The value of ensuring the maintenance of oral health after treatment of patients with advanced or complicated problems.
4. The challenges and satisfactions of carrying out research.

SYLLABUS

Research Project (continued from the previous year)

Convener Dr. I.H. Johnson

One session of 3 hours per week during first semester for the completion of the research project commenced in fourth year. By the end of the Research Project teaching program in the fifth year, the dental student should:

(A) Comprehend:

1. The principles of research methodology.
2. The importance of formulating precise objectives for a research project.
3. The need for a thorough review of the existing knowledge of the research topic.
4. The necessity for thoughtful planning for the execution of the project.
5. The need for the scientific assessment of the results and the presentation of the findings in a manner acceptable to the scientific community.

(B) Develop:

1. Skills in working as a member of a research team.
2. Skills in formulating an hypothesis and in planning how the hypothesis may be tested.
3. Skills in planning the execution of the research, in carrying it out, recording data and in analysing results.
4. The ability to assess the validity of results and to set these in the overall knowledge on the topic.
5. Skills in writing up the project, its oral presentation and in responding to questions.

(C) Appreciate:

1. The necessity of research as the means of furthering advances in all aspects of dentistry.
2. A commitment to research in dentistry.
3. The value of team research.
4. The need for the lucid and accurate presentation of results.
5. Ways of evaluating the findings in research reports.
The general form of reports must follow the rules for theses which are adapted from the

*Directions of the Academic Board Pursuant to Regulation 4.4.1*

(1) Reports should be typed on A4 paper with a left hand margin at least 4 centimetres wide.

(2) Pages should be consecutively numbered; if sheets are interpolated they should be lettered consecutively, each letter being preceded by the number of the last previous numbered page.

(3) Folding diagrams and charts should be arranged so as to open out to the top and right.

(4) The title page must show the title of the report the degree for which it is submitted, and the full names of the authors.

(5) The original or a good quality photocopy on bond paper shall be bound in such manner that it will stand on a shelf as a book.

The *style and standard* of presentation of the report should be consistent with those required for publication of an article in a refereed scientific journal. The following points should be observed during preparation of the manuscript.

(a) Scripts used for the oral presentation of the research work in the Special Activities Program should **NOT** be submitted as the typed report.

(b) Reports must be typed, double-spaced, on A4 size bond paper. Type only on one side of the paper.

(c) Reports must be carefully proof-read for errors before submission.

(d) There should be a *Contents* page.

(e) Sections of the report should be clearly identified and entitled *Abstract, Introduction, Literature Review, Aim, Materials and Methods, Results, Discussion, Conclusions, References, Appendices, Acknowledgements*, etc. may be included as appropriate.

(f) In the text, cite the references by number from an alphabetical list of references.

(g) The reference style should be in the general format of the following:-

*Articles* Authors, Year, Title, Journal, Volume, Pages.

*Books* Authors, Year, Title, Edition, Place of Publication, Publishers, Pages or Chapter (as appropriate)

(h) The titles of journals should be abbreviated according to the style used in *Index Medicus*. 
Clinical Behavioural Science.
Convener Professor F.A.C. Wright

This course is designed firstly to integrate the student's behavioural orientation toward dentistry, and secondly, to provide information and experience in the management of patients with complicated psychological and social histories. The areas covered are: the sociology of dentistry as an organisation; the mouth as an outlet for emotional expression; psychotic and neurotic disorders; relaxation, systematic desensitisation, and hypnosis.

Pain and pain control.
Convener Professor P.C. Reade

The applied physiology and psychology of acute and chronic pain, general management of patients with pain, diagnosis and management of painful conditions, control of surgical pain, pharmacological and psycho-social considerations.

Convener Associate Professor V.C. West

Staff selection, management and welfare; occupational health problems and their prevention; para-professional personnel; industrial relations; legal requirements of practice; public risk; law and the professions; jurisprudence, national and international codes of ethics; practice organization and management.

Community Dental Health.
Convener Professor F.A.C. Wright

The course is concerned with the complexity of the planning and administration of the delivery of dental care. The lecture/seminar programme includes consideration of the social goals in the delivery of dental care and issues that influence effectiveness, and equity; the planning cycle of programmes; the role of need and demand in planning; financing of dental care; dental insurance and quality assurance; the role of dental health teams in dental care programmes; the organization of oral health education; and comparison of the planning and administration of Australian dental care programmes with those of other countries (e.g. Norway, United Kingdom, New Zealand).

Preventive Dentistry.
Convener Associate Professor W.A. McDougall

The preventive philosophy and its validation at the individual and community level; societal and attitudinal aspects relating to the prevention of oral diseases; fluorides and fluoridation; life cycle changes and appropriate preventive care; the dental team as facilitator of behavioural change in preventing oral diseases.

Care of the Special Patient.
Convener Dr. C.B. Olsen

General, local and management problems associated with providing short and long term oral health care for disabled, homebound, hospitalized, institutionalized and geriatric patients; changes in the oral mucosa, musculature, mandibular joint, bone and periodontium in the aged; dental emergencies; the terminal dentition; dental treatment in relation to drug therapy.
Oral Diagnosis and Treatment Planning.
Convener Professor P.C. Reade

Consideration of the diagnostic and management aspects of patients with multiple or complex general and dental problems; specialist referral.

Radiology.
Convener Dr. J.G. Clement

Advanced radiological interpretation; radiographic management.

Growth Studies.
Convener Dr. S.A. Feik

The extension of the growth studies of previous years into growth, developmental, attitudinal and behavioural changes throughout the period of maturity and into senescence.

Disorders of Oral Function.
Convener To be appointed


Applied Basic Sciences.
Convener Dr. E.C. Reynolds

A series of 21 hours of lectures demonstrations, and seminars on the application of basic sciences including dental materials science to oral health problems and their management.

ASSESSMENT

One 3-hour written examination at the end of the year. Candidates may be required to submit to further clinical, laboratory and/or viva voce examinations. Assessments of each student's written and practical work are also made throughout the year and are considered in assessing the final result.

The research project report will be examined and candidates may be required to submit for an oral examination in relation to their work as embodied in the written report.
511-502 ORAL MEDICINE AND ORAL SURGERY

96 hours of lectures, seminars and clinical work.

SYLLABUS

**Oral Medicine.**

Convener Dr. A.M. Rich

A continuation of studies commenced in fourth year. Students will be rostered to clinics for clinical tutorials. A written assignment may be required.

**Oral Surgery.**

Convener Professor P.C. Reade

A continuation of studies commenced in fourth year. The emphasis will be on the principles of oral surgery, illustrated by discussion of common oral surgical problems: the surgical anatomy, pathology, and special surgery of the oral and maxillofacial region, including pre- and post-operative care and management of complications. Students normally will be rostered to clinics for clinical tutorials at The Royal Dental Hospital of Melbourne, The Royal Melbourne Hospital, The Royal Children's Hospital and the Peter MacCallum Cancer Clinic. A written assignment may be required.

**General Anaesthesia.**

Convener Professor P.C. Reade

The state of general anaesthesia and the problems inherent in its induction. Applied physiology of respiration and circulation in relation to patients undergoing surgery under general anaesthesia. The pharmacology of drugs and agents used in general anaesthesia. Indications for general anaesthesia in dentistry. Endotracheal anaesthesia, the place of non-endotracheal techniques, including conscious sedation, in dentistry, and limitations of the techniques. The nature of surgical risk and its assessment. Post-operative and post-anaesthetic complications, their prevention, recognition and management. Complications of general anaesthesia and conscious sedation. Respiratory and circulatory resuscitation. Students will be rostered for clinical tutorials.

ASSESSMENT

One 2-hour mid-year test, and one 3-hour written examination at the end of the year. Candidates may be required to submit to further clinical, laboratory, written and/or *viva voce* examinations. Assessments of each student's written and practical work are also made throughout the year and are considered in assessing the final result.
511-503  CONSERVATIVE DENTISTRY

32 hours of lectures and seminars and 162 hours of clinical work.

Paediatric Dentistry,

Convener  Professor L.J. Brearley

By the end of the Paediatric Dentistry teaching program in the fifth year, the dental student should:

(A) Comprehend:

2. The diversity of physical, medical and social conditions which affect the presentations of child patients allocated to the management of dental disorders in children.
3. The importance of a preventive approach to the management of dental disorders in children.

(B) Develop:

1. Skills to successfully diagnose a child patient's oral health condition and manage his/her long term dental treatment.
2. Clinical skills sufficient to provide a range of preventive and treatment services within a general dental practice.
3. Inter-personal skills sufficient to communicate effectively with patient and parent.

(C) Appreciate:

1. The role of development, family and condition in developing services to children.
2. The need for referral in those situations which cannot be successfully managed in general dental practice.

SYLLABUS

Psycho-social problems of children, special needs and clinical management of sick and disabled children, examination and diagnostic procedures with emphasis on the differences in dental care between childhood and adulthood, clinical experience in the management of children.

Periodontics,

Convener  Dr. R.H. Hammond

By the end of the Periodontics teaching program in the fifth year, the dental student should:

(A) Comprehend:

1. The efficacy of periodontal therapy.
2. The outcome of periodontal therapy in short and long term studies.
3. The appropriateness of currently advocated therapeutic measures.
4. The management of periodontal emergencies.
5. The current understanding of the aetiology of periodontal diseases with special emphasis on the role of micro-organisms.
6. Other types of periodontal disease (i.e. other than chronic inflammatory periodontal disease).
7. The relationship between periodontal diseases and systemic conditions including the role of oral health in general health.
8. The relationship between pulpal and periodontal disease.

(B) Develop:

1. The skills learned in 3rd and 4th years especially the collection and interpretation of clinical data, treatment planning and communication with patients.
2. The ability to evaluate the outcome of periodontal therapy.
3. The ability to discuss clinical cases with other people.
4. The ability to carry out appropriate treatment for special category patients whose medical condition or handicap may pose particular problems.
5. The ability to communicate with other members of the dental team in order to work together effectively.

(C) Appreciate:

1. That a B.D.Sc course is short in relation to the average human life span and that the only clinical outcomes he/she will have observed at first hand in periodontics are necessarily short term.
2. The need to make periodontal care available not only to those seeking dental treatment but also to the whole population.
3. The need for continuing education in the subject throughout professional life, with both an awareness of this need and a wish to fulfill it.
4. The practical value of hygienist and other ancillary personnel in treating and preventing periodontal disease.

SYLLABUS

Current theory, practice and evaluation of the results of periodontal treatment in short term and long term clinical situations. Current trends in periodontal research.

Orthodontics.

Convener Associate Professor V.C. West

By the end of the Orthodontics teaching program in the fifth year, the dental student should:

(A) Comprehend:

1. The aetiological factors contributing to a malocclusion.
2. The role of extractions in relation to malocclusion.
3. The nature of the growth of bone and bones - and its relevance to orthodontics.

(B) Develop:

1. The ability to diagnose and establish the aetiology of a malocclusion.
2. The ability to devise a treatment plan in the light of the presumed aetiological factors.
3. An ability to implement treatment within the individual competence of each operator.
(C) Appreciate:

1. That each case ought to receive treatment which is optimum for the individual - after consideration of all of the relevant factors.
2. That specialist orthodontics treatment is not available to all patients for a variety of logistical reasons - hence there is a need for the general practitioner to be capable of intervention with developing and established malocclusion so as to effect some worthwhile improvement in the patient's occlusion.

SYLLABUS

The principles involved in orthodontic treatment and their application: case analysis, treatment planning, age at which to commence treatment, prognosis and retention; the application of force in orthodontic treatment and the subsequent histological changes in the supporting tissues; appliances used for treatment with special reference to removable appliances; the principles of fixed appliance treatment; the nature and causes of relapse following treatment.

ASSESSMENT

One 3-hour written examination at the end of the year. Candidates may be required to submit to further clinical, laboratory, written and/or viva voce examinations. Assessments of each student's written and practical work are also made throughout the year and are considered in assessing the final result.

511-504 RESTORATIVE DENTISTRY

34 hours of lectures and seminars and 240 hours of clinical work.

SYLLABUS

Endodontics.

Convener  Professor H.H. Messer


General Practice.

Conveners  Dr. M.J. Tyas and Associate Professor J.K. Harcourt

A continuation of the clinical practice from fourth year with the total care of selected patients in a general clinical practice environment. The concept of multidisciplinary, longitudinal care versus episodic dental care is emphasised.

Lectures will be given on advanced aspects of removable prosthodontics including function of the periodontal ligament, aspects of occlusion; appliances for infants and children; maxillo-facial prosthetics; sectional dentures; precision attachments; overdentures; dental implantology.
Selected patients of the Royal Dental Hospital of Melbourne will receive total care including the following as necessary: -
Examination, diagnosis and treatment planning (E.D.T.P.); preventive procedures such as oral hygiene instruction to help patients establish effective home care, application of fluorides, placement of fissure sealants, dietary counselling; periodontics including scaling and cleaning, removal of overhangs, adjustment of partial dentures, provision of aids for home care; conservative (operative) dentistry including use of amalgam, composite resin, glass ionmer cement, gold and porcelain materials; prosthodontics including provision of full, partial and immediate denture treatment.

**Fixed Prosthodontics.**

**Convener** Dr. B.L. Stewart


**ASSESSMENT**

One 3-hour written examination at the end of the year. Candidates may be required to submit to further clinical, laboratory, written and/or *viva voce* examinations. Assessment of each student's written and practical work are also made throughout the year and are considered in assessing the final result.
DEGREE OF BACHELOR OF DENTAL STUDIES

Convener: Professor P.C. Reade

Aim
To facilitate the advanced development of academic and research skills necessary for the furtherance of a career in research or academia.

Objectives
In passing through the program the student should be able to:

1. Acquire a basic understanding of current advances in research methodology in the biological and health sciences.

2. Conduct a scientific investigation into a biological, clinical or community health problem.

Assessment:
The submission of a detailed report (of not more than 25,000 words) and a viva voce assessment relevant to the subject of the report.

Syllabus:
This is a program of research training carried out over a period of one-year in any area of investigation relevant to dental science such as the biological, social and clinical sciences.

Special Requirements:
A candidate wishing to pursue this course must have completed at least the Third Year of the course for the Degree of Bachelor of Dental Science, be deemed by the Faculty to be suitable for advanced study, and be recommended by the Head of the Department or Section in which the advanced study is to be carried out.
DEGREE OF MASTER OF DENTAL SCIENCE

Aims

1. To provide a course of graduate education which permits the candidate to acquire advanced knowledge and skills in one of the specific dental science disciplines of: restorative dentistry; dental materials science; orthodontics; endodontics; children's dentistry; preventive and community dentistry; periodontics; oral pathology and oral medicine; oral surgery; and oral anatomy, oral histology and oral embryology.

2. To facilitate the advanced development of academic and research skills necessary for a graduate to further a career in academia, research or specialty practice.

Objectives

In passing through the course the graduate student should be able to:

1. acquire a basic understanding of current advances in research methodology in the biological and health sciences;

2. acquire a detailed understanding of the principles, current developments and research methods applicable to the specific discipline;

3. develop special skills in the provision of clinical services applicable to the discipline;

4. conduct an original scientific investigation into a biological, clinical or community health problem;

5. communicate the results of scientific enquiry.

Students may proceed to a Master of Dental Science Degree by Research or by Course Work.

ASSESSMENT

Research: The submission of a major research thesis (of not more than 40,000 words excluding appendices) and a viva voce examination.

Course Work: Students will study the subjects set out under the relevant syllabus and will be examined as follows;

1. Not more than two 3-hour written examinations and up to two viva voce examinations of not more than 1 hour each.

2. The submission of a minor research thesis (of not more than 25,000 words excluding appendices).

3. The presentation may be required of:
   (a) up to three selected clinical cases and/or
   (b) reviews and laboratory notebooks prepared during the course.
511-602 ORAL PATHOLOGY AND ORAL MEDICINE

Conveners Professor P.C. Reade and Associate Professor B.G. Radden

SYLLABUS

A course of advanced study in a clinical and/or research aspect of Oral Pathology and Oral Medicine will be planned for each candidate in consultation with the candidate's supervisor.

It is intended that the course of study will involve a major clinical or research project with supporting course work or consist primarily of course work associated with a research project. The course work may consist of lectures, tutorials, assignments and practical or clinical work. Reading lists will be produced in consultation with each candidate's supervisor.

511-611 ORAL SURGERY

Convener Professor P.C. Reade

SYLLABUS

A course of advanced study in a clinical and/or research aspect of Oral Surgery will be planned for each candidate in consultation with the candidate's supervisor.

It is intended that the course of study will involve a major clinical or research project with supporting course work or consist primarily of course work associated with a research project. The course work may consist of lectures, tutorials, assignments and practical or clinical work. Reading lists will be produced in consultation with each candidate's supervisor.

511-603 ORAL ANATOMY, ORAL HISTOLOGY AND ORAL EMBRYOLOGY

Convener Dr. J.G. Clement

SYLLABUS

A course of advanced study in a basic science aspect of Oral Anatomy, Oral Histology and Oral Embryology will be planned for each candidate in consultation with a supervisor.

It is intended that the course of study will involve a major basic science research project, with supporting course work, or consist primarily of course work associated with a minor research project. Course work will include tutorials and practical sessions in two of the following subjects: Anatomy, Histology, Embryology, Cellular Biology or other suitable subjects as determined from time to time in each of the two years of the course. Reading lists will be produced in consultation with each candidate's supervisor.
511-604  PAEDIATRIC DENTISTRY
Convener  Professor L.J. Brearley

SYLLABUS
A course of advanced study and research relating to the prevention and correction of
dental disorders in children. The course will consist of lectures, tutorials, assignments,
clinical and laboratory demonstrations, practical work and research.

511-605  PERIODONTICS
Convener  Dr. R.H. Hammond

SYLLABUS
A course of advanced study and research relating to the nature and treatment of
disorders of the tooth-supporting structures and the relationship of these to other dental
and systemic conditions. The course will consist of lectures, tutorials, assignments,
clinical and laboratory demonstrations, practical work and research.

511-606  PREVENTIVE AND COMMUNITY DENTISTRY
Convener  Professor F.A.C. Wright

SYLLABUS
A course of advanced study and research relating to the prevention of dental disorders
and the delivery of dental care. The course will consist of lectures, tutorials,
assignments, clinical and laboratory demonstrations, practical work and research. The
major emphasis may be community dental health, cariology or gerodontics.

511-607  RESTORATIVE DENTISTRY
Convener  Associate Professor J.K. Harcourt

SYLLABUS
1. Candidates proceeding by course work and minor thesis will be involved in
advanced study and research in restorative dentistry with emphasis on fixed or
removable appliance therapy together with a consideration of occlusal problems and
the temporomandibular joint. The course work may consist of lectures, tutorials,
assignments and practical or clinical work. Reading lists will be produced in
consultation with each candidate's supervisor.

2. Candidates proceeding by thesis alone will carry out a major research project and
the topic will be formulated after discussion with the candidate's supervisor and the
Head of Section.
511-608 DENTAL MATERIALS SCIENCE
Convener Associate Professor J.K. Harcourt

SYLLABUS

Advanced study and research in dental materials science consisting of lectures, tutorials, clinical and paraclinical assignments, laboratory work, written work, and training in research methods covering the following:

Structure and properties of materials used in dentistry, standards and certification of dental materials, properties of the biological tissues involved, biomaterials. A consideration of modern materials and possible future developments will be included. Attendance at laboratory classes and tutorials and completion of reports and assignments throughout the course as required by the Head of Section.

Research opportunities exist in the evaluation of conventional and new materials, clinical testing of materials and for experimental biological testing of materials. Facilities for developmental work exist in the Section.

511-609 ORTHODONTICS
Convener Associate Professor V.C. West

SYLLABUS

A course of advanced study and research relating to the development of normal and abnormal skull growth and occlusion, and the prevention, interception and correction of dento-facial abnormalities by orthodontic means. The course will consist of lectures, tutorials, assignments, clinical and laboratory demonstrations, practical work and research.

511-610 ENDODONTICS
Convener Professor H.H. Messer

SYLLABUS

A course of advanced study and research into the nature and treatment of disorders of the dental pulp and periapical tissues and the relationship of these to other dental and systemic conditions. The course will consist of a research project as well as lectures, tutorials and practical work.
GRADUATE DIPLOMA IN CLINICAL DENTISTRY

AIMS

To provide a programme of graduate education including appropriate clinical experience, which will enable candidates to further their knowledge and skills in selected aspects of clinical dentistry.

OBJECTIVES

In passing through the programme, the postgraduate student should be able to:

1. acquire advanced knowledge and skills in two or more disciplines of: preventive dentistry, oral health and oral health maintenance, cariology, endodontics, gerodontology, oral diagnosis and treatment planning, oral medicine, oral surgery, orthodontics, paediatric dentistry, periodontics and restorative dentistry;

2. identify the recent advances in dental science affecting dental service delivery.

GENERAL INFORMATION

Convener Dr. M.J. Tyas

A candidate for the Diploma will usually hold the degree of Bachelor of Dental Science.

A candidate may pursue the course for the Diploma over at least one year as a full-time candidate or, with the approval of Faculty, over a period of not more than three years as a part-time candidate.

Candidates must successfully complete a minimum of eight units. This will comprise four units from Group 1 subjects, and four units from Group 2 subjects.

Before presenting for assessment, a candidate shall satisfy the Faculty that the course of study and training has been satisfactorily completed, such clinical and practical tests have been passed and such reports as may be required have been submitted at a satisfactory standard. The details of assessment are listed under the units available for the course. The four units of Group 1 are to be completed satisfactorily before commencement of Group 2 subjects.

DETAILS OF SUBJECTS

GRADUATE COMMON LECTURE CORE (GROUP 1 SUBJECTS)

Lecture/seminar Programme. 2 Units

Candidates will participate in a series of lectures/seminars common to all Diploma and Master's candidates. The series is over 25 weeks and covers the lecture and seminar requirements for Group 1 subjects.

Assignments and practical work. 2 Units

Candidates are required to select one or two subjects for advanced work and satisfactorily complete assignments and practical work within their selected subject(s) on the basis of either a separate subject for each semester, or the same subject for two semesters. Available subjects are: oral anatomy; oral physiology and biochemistry; microbiology; materials science; and oral pathology. (An equivalent time commitment over one semester may be negotiable with subject conveners.)
Oral Anatomy. 2 Units.

Gross anatomy of the lower half of the skull, including embryology, osteology, radiological anatomy and dental anatomy. Microscopic anatomy of the relevant tissues of the regions.
Included in the course will be one assignment of 2,000 words.

Oral Physiology and Biochemistry. 2 Units.

The physiology and biochemistry of the human organ-systems. Biophysics of excitable and contractile tissues. General principles of nutrition and metabolism. Mechanisms of the regulation of normal growth, the structure of the skeleton and the composition of the body fluids. The structure and metabolism of nucleotides and nucleic acids and their role in the synthesis of proteins.
Included in the course will be one assignment of 3,000 words.

Microbiology. 1 Unit.

The divisions of the microbial world and properties of microbes. Microbial ecology with emphasis on colonization, symbiosis, parasitism and pathogenicity of microbes for humans. Responses to microbial colonization and infection including host resistance, immunity and hypersensitivity. Control of microbes: disinfection, sterilization asepsis and chemotherapy. The acquisition and distribution of microbes that constitute the indigenous oral flora of humans. Ecological habitats within the mouth and specific characteristics of certain oral bacteria. The relationship of the microbiota of dental plaques to dental caries and periodontal diseases. Microbiology of endodontic and oral mucosal infections including candidosis.
Included in the course will be two assignments of approximately 2,000 words each.

Pharmacology. 1 Unit.

Included in the course will be two assignments of 2,000 words each.

Psychology. 1 Unit.

A course of lectures and tutorials, and two assignments of approximately 2,000 words each at an advanced level, in developmental, cognitive, personality and social psychology.

Materials Science. 1 Unit.

Lectures, tutorials, laboratory work and assignments at an advanced level in the structure and properties of materials used in dentistry, and biomaterials, and their possible future development.
Included in the course will be one written assignment of approximately 3,000 words.
Epidemiology. 1 Unit.

Lecture and tutorials, and two assignments of 2,000 words each at an advanced level, with emphasis on the principles of design and interpretation of epidemiological data; the epidemiology of dental caries, periodontal disease, oral tumours and deno-facial deformities.

Oral Pathology. 1 Unit.

Lectures, tutorials and practical work at an advanced level with special reference to the pathology of the oral and related structures, and systemic influences on the development of oral and dental structures. The pathology of oral diseases will be studied microscopically, clinically and radiologically. Included in the course will be a written assignment of approximately 3,000 words.

GROUP 1 SUBJECTS ASSESSMENT

(i) One 3-hour written examination (40%).
(ii) Completion of assignments as specified in details of the subject (25%).
(iii) Completion of practical and laboratory work (25%).
(iv) Half-hour viva voce examination (10%).

APPLIED AND CLINICAL SUBJECTS (GROUP 2 SUBJECTS)

Oral Health and Oral Health Maintenance. 2 Units.

Lectures, tutorials, clinical and laboratory work at an advanced level with special reference to the philosophy of health maintenance at the individual and community levels, oral health beliefs; the psychology of behaviour; verbal and non-verbal communication; behaviour management; the family as the focus or unit of intervention; life style changes; collecting health maintenance data; defining goals for the patient; strategies for developing, monitoring and modifying oral health care procedures, patients with disadvantages; the roles of the dentist and the dental profession in individual and community dental health; attitudes of ethnic groups to oral health; nutrition; delivery of dental care in Australia and Victoria in particular; and evaluation of dental care programmes. The course will include two assignments of approximately 3,500 words and two assignments of approximately 1,500 words throughout the semester.

Clinical Preventive Dentistry. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical and laboratory work with reference to the aetiology, pathogenesis, epidemiology and management of destructive lesions of the teeth of adults and children. This component will emphasize future trends in cariology arising through scientific progress and biomechanics.

Endodontics. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical and laboratory work at an advanced level in which special reference is given to pulpal physiology, microbiology and pathology, with respect to the diagnosis and management of the vital and non-vital pulp. Complications of endodontic therapy will be stressed. Aspects of endodontics relating to surgery and restorative procedures are included in the course.

Gerodontics. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work in a course of advanced study with reference to the special needs of the aged in relation to psychosocial and physio-pathological aspects, pharmacology, restorative dentistry, periodontics, endodontics, oral surgery and preventive and community aspects. A modified course of one unit may be studied in association with restorative dentistry.
Oral Diagnosis and Treatment Planning. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level, to include preventive aspects of diagnosis and treatment planning for individuals and communities, history taking and data recording, patient examination, social and cultural aspects of dental health and its management, differential diagnosis of oral disorders, treatment objectives and treatment planning (including complex cases and alternative treatment plans), dental management of patients with complex general problems, prognosis.

Oral Medicine. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level, with special emphasis on diagnosis and non-surgical treatment of disorders of the oral soft tissues, facial skeleton and temporomandibular joints, oral manifestations of systemic disease, orofacial pain, pharmacology, physiology and psychology of pain.

Oral Surgery. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level with special reference to surgical anatomy, diagnosis, surgical technique, instrumentation, management of pain.

Orthodontics. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level, with reference to the development of normal and abnormal skull growth and occlusion and the prevention, interception and correction of dento-facial abnormalities by orthodontic means.

Paediatric Dentistry. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level with reference to the prevention and correction of dental disorders in children.

Periodontics. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level with reference to the nature and treatment of disorders of the tooth-supporting structures and the relationship of these to other dental and systemic conditions.
A modified course of one unit may be studied in association with gerodontics.

Restorative Dentistry. 2 Units.

Lectures, tutorials, one assignment of approximately 3,000 words and clinical work at an advanced level, with reference to fixed and/or removable appliance therapy, occlusion and craniomandibular disorders.
A modified course of one unit may be studied in association with gerodontics.

GROUP 2 SUBJECTS ASSESSMENT

(i) One 3-hour written examination (40%).
(ii) Assignments as specified in the details of subjects (25%).
(iii) Clinical examination including viva voce examination of 1-hour duration (35%).
GRADUATE DIPLOMA IN FORENSIC ODONTOLOGY

AIMS

To provide a programme of graduate education which will enable candidates to further their knowledge and skills in forensic odontology.

OBJECTIVES

In passing through the programme the postgraduate student should be able to:

1. identify current developments in basic medical sciences which are applicable to forensic odontology;
2. understand the disciplines of forensic medicine and forensic pathology in their broad sense;
3. acquire experience in forensic case work involving both the living and the dead;
4. acquire an understanding of the legal system relevant to the preparation and presentation of dental evidence.

GENERAL INFORMATION

Convener Dr. J.G. Clement

A candidate for this Diploma will usually hold the degree of Bachelor of Dental Science.

This course will require the student to be registered with the University of Melbourne for a period of one academic year for full-time students or two academic years for part-time students.

It is intended to attract students to undertake the Diploma in Forensic Odontology from all parts of Australia and overseas. For this reason it is necessary to compress the taught course into two concentrated teaching periods.

The course has 3 major components:-

1. A basic theoretical core which will be taught as four discrete units. These comprise:
   a) basic dental sciences
   b) applied dental science
   c) forensic medicine and pathology
   d) law and law enforcement

2. A complementary applied practical course, where pertinent scientific techniques and laboratory procedures are demonstrated and taught. During this programme numerous visits to appropriate subsidiary teaching venues will take place. This course is to be co-ordinated as closely as practicable with the corresponding units of the theory programme.
3. The students will be required to undertake:
   a) a supervised research project deemed appropriate to the subject by the Faculty.
   and/or
   b) submit a portfolio of forensic casework.

Students' research projects may be undertaken in either of the principal teaching venues (School of Dental Science, University of Melbourne and/or the Victorian Institute of Forensic Pathology). However, because of the distances from which it is anticipated that students will come to attend the course, it may be necessary to approve research projects that may be undertaken under appropriate supervision elsewhere.

Similarly, it is anticipated that a substantial amount of directed and supervised reading and written essays will be undertaken by students in the location of their permanent homes or places of work.

This publication contains the broad outline of the Diploma, and prospective students are strongly advised to obtain complete details of the Diploma from the School of Dental Science Office.
DETAILS OF SUBJECT

A. BASIC DENTAL SCIENCE UNIT
1. Embryology of human cranio-facial structures.
3. Dental embryology.
4. Human tooth morphology.
5. Physical anthropology. Racial traits.
6. Comparative dental anatomy.
7. Dental histology.
8. Age changes to teeth and jaws.
10. Computing, data collection, storage, transmission and retrieval.

B. FORENSIC MEDICINE AND PATHOLOGY UNIT
1. History of Forensic Odontology.
2. Hazards of the mortuary and scene of crime.
3. The medico-legal autopsy and post-mortem changes.
4. Bite marks on the living and deceased.
5. Saliva, semen, cytology and blood groups. DNA 'fingerprinting'.
7. Recording methods and preparation of reports.
8. Soft tissue injuries (the differential diagnosis of the causative agent).
10. Field-kit.
11. Disaster victim identification (DVI)
12. Exhumation.
13. Forensic photography.
14. Forensic psychology.

C. APPLIED DENTAL SCIENCE UNIT
1. Dental materials.
2. Prosthetics - impression techniques
   - study model construction and duplication
   - denture marking
3. Comparative dental practice in various countries.
5. Fractures of bones and teeth.

D. THE LAW AND LAW ENFORCEMENT UNIT
1. The law. Home and abroad.
2. Dental jurisprudence.
3. The organisation of police forces.
4. Forensic Odontologist. Liaison with police and legal profession.
5. The scene of crime.
6. Case preparation and presentation:
   a) Coroners court
8. The functions of the Expert Witness.
9. Legal implications of mass disasters and repatriation.

PRACTICALS

1. Field-kit.
2. Impression taking from persons both living, dead and objects and foodstuffs. Model making. Marking of dentures.
3. Photography.
4. Radiography.
5. Charting methods.
6. Bite marks.
8. Applications of electron microscopes.
10. The medico-legal autopsy.
11. Mock mass disaster.
12. X-ray diffraction/Microradiography.
15. Video - superimposition techniques.
16. Class presentations of the student's own research or coursework.

ASSESSMENT

Students are required to:-

A. Sit two written examinations each of 1 1/2 hours duration at the end of the taught course each semester. Each paper to be devoted to one of the principal subject courses (basic dental science, applied dental science, forensic medicine and pathology, law and law enforcement).

B. Take a viva voce examination of 15 minutes duration upon completion of each of the four principal subject course units.

C. Submit either: a type-written report of their research project, and/or, a type-written casework portfolio (suitable for binding) not less that 3 weeks before the end of their final semester.

D. Submit two essays of not more than 3,000 words each, for each of the taught course units. The subjects and titles will be set at the beginning of each semester.

The Diploma will only be awarded to candidates successful in each aspect of the examination.
### BOOK LIST

PR = Preliminary reading  
* = Essential text which all students should possess.

## DEGREE OF BACHELOR OF DENTAL SCIENCE

### FIRST YEAR

### 511-101 DENTAL STUDIES 1

- Combe EC *Notes on Dental Materials* 5th ed 1986 Churchill Livingstone  
- Jenkins GN *The Physiology and Biochemistry of the Mouth* 4th ed 1978 Blackwell  
- King NJ and Remenyi AG *Psychology for the Health Sciences* 1989 Nelson  
- Scott D *Don't Mourn for Me Organize* 1981 Allen & Unwin  
- Scott JH and Symons NBB *Introduction to Dental Anatomy* 9th ed 1982 Churchill Livingstone  
- Sinclair D *Human Growth After Birth* 4th ed 1985 OUP

### 511-102 ORAL ANATOMY 1

- *Scott JH and Symons NBB* *Introduction to Dental Anatomy* 9th ed 1982 Churchill Livingstone  
- Fuller JL and Denchey GE *Dental Anatomy and Morphology* 2nd ed 1985 Year Book Medical Publishers  
- Van Beek GC *Dental Morphology An Illustrated Guide* 2nd ed 1983 Wright

### 516-018 ANATOMY 1

- **Topographic Anatomy**  
  - *McMinn RMH* *Last's Anatomy Regional and Applied* 8th ed 1990 Churchill Livingstone  
  - Moore KL *Clinically Oriented Anatomy* 2nd ed 1985 Williams and Wilkins  
516-019  DENTAL BIOLOGY

**Cell and Animal Biology**
Scientific American *Vertebrate Structures and Functions* NK Wessells ed 1974 PB (PR)
*Villee CA, Walker WF Jnr and Barnes RD* *General Zoology* 6th ed 1984 Saunders

**Histology**
*Alberts B et al* *Molecular Biology of the Cell* 2nd ed 1989 Garland
*Junqueira LC, Carneiro J and Long JA* *Basic Histology* 5th ed 1986 Lange Medical
*Wheater PR Burkitt HG and Daniels VG* *Functional Histology* 2nd ed 1987 Churchill Livingstone *(essential for practical classes)*

**Developmental Biology and Embryology**
*Moore KL* *The Developing Human* 4th ed 1988 Saunders
Oppenheimer SB and Lefevre G *Introduction to Embryonic Development* 2nd ed 1984 Allyn and Bacon

610-003  CHEMISTRY (DENTAL SCIENCE)

*Brown WH* *Introduction to Organic Chemistry and Biochemistry* 4th ed 1987 Brooks Cole
*Morris JG* *A Biologist's Physical Chemistry* 2nd ed 1974 Edward Arnold
Hughes MN *The Inorganic Chemistry of Biological Processes* 2nd ed 1981 Wiley
McTigue PT *Chemistry: Key to the Earth* 2nd ed 1982 MUP (PR)

SECOND YEAR

511-201  DENTAL STUDIES 2

*Baum LB, Phillips RW and Lund MR* *Textbook of Operative Dentistry* 2nd ed 1985 Saunders
*Linde J* *Textbook of Clinical Periodontology* 2nd ed 1989 Munksgaard
*Phillips RW* *Skinner's Science of Dental Materials* 8th ed 1982 Saunders
Combe EC *Notes on Dental Materials* 5th ed 1986 Churchill Livingstone
Craig RG *Restorative Dental Materials* 8th ed 1989 Mosby
Davis P *The Social Context of Dentistry* 1980 Croom Helm
Davis P *Introduction to the Sociology of Dentistry* 1987 Otago UP
Deubert LW and Jenkins CBG *Tooth Coloured Filling Materials in Clinical Practice* 2nd ed 1982 Wright
Dworkin SF et al *Behavioural Science and Dental Practice* 1978 Mosby
Enlow DH *Handbook of Facial Growth* 2nd ed 1982 Saunders
Gainsford ID *Silver Amalgam in Clinical Practice* 2nd ed 1976 Wright
511-202 ORAL ANATOMY 2

*Cotton JA and Miles Standish S Outline of Forensic Dentistry 1982 Year Book Medical Publishers
*Scott JH and Symons NBB Introduction to Dental Anatomy 9th ed 1982 Churchill Livingstone
*Sperber GH Craniofacial Embryology 4th ed 1989 Wright
Bhaskar SP Orban's Oral Histology 10th ed 1986 Mosby
Moore KL The Developing Human 4th ed 1988 Saunders
Provenza D and Seibel W Oral Histology: Inheritance and Development 2nd ed 1986 Lea and Febiger

516-028 ANATOMY 2

*Junqueira LC Carneiro J and Long JA Basic Histology 5th ed 1986 Lange Medical
*Mc Minn Rh H Last's Anatomy Regional and Applied 8th ed 1990 Churchill Livingstone
*Moore KL The Developing Human 4th ed 1988 Saunders
*Wheater PR Burkitt HG and Daniels VG Functional Histology 2nd ed 1987 Churchill Livingstone (essential for practical classes)
Anderson JE Grant's Atlas of Anatomy 9th ed 1989 Williams and Wilkins
Evers HA and Haegerstam G Handbook of Dental Local Anaesthesia 1981 Schutz
Johnson DR and Moore WJ Anatomy for Dental Students 1983 OUP
Rohen JW and Yokochi CL Colour Atlas of Anatomy 2nd ed 1989 Igaku-Shoin
Sperber GH Craniofacial Embryology 4th ed 1989 Wright

521-029 BIOCHEMISTRY

Devlin TM Textbook of Biochemistry with Clinical Correlations 2nd ed 1986 Wiley
536-029 PHYSIOLOGY

*Berne RM and Levy MN *Physiology* 2nd ed 1988 Mosby
or
*Sherwood L *Human Physiology: From Cells to Systems* 1989 West Publishing
Ganong WF *Review of Medical Physiology* 13th ed 1987 Lange Medical
Schmidt RF and Thews G *Human Physiology* 20th ed 1982 Springer-Verlag

THIRD YEAR

511-301 DENTAL STUDIES 3

*Goaz PW and White SC *Oral Radiology Principles and Interpretation* 2nd ed 1987 Mosby
*Serene TP et al *Principles of Preclinical Endodontics* 3rd ed 1977 Kendall Hunt
*Thylstrup A and Fejerskov O *Textbook of Cariology* 1986 Munksgaard
Ash M and Ramfjord SP *An Introduction to Functional Occlusion* 1982 Saunders
Braham RL and Moratton ME *Textbook of Pediatric Dentistry* 2nd ed 1985 Williams and Wilkins
Cohen S and Burns RS *Pathways of the Pulp* 4th ed 1987 Mosby
Combe EC *Notes on Dental Materials* 5th ed 1986 Churchill Livingstone
Craig EG *Restorative Dental Materials* 8th ed 1989 Mosby
Enlow DH *Handbook of Facial Growth* 2nd ed 1982 Saunders
Geboy MJ et al *Communication and Behaviour Management in Dentistry* 1985 Williams and Wilkins
Grant AA and Johnson W *An Introduction to Removable Denture Prosthetics* 1983 Churchill Livingstone
Gross MD *Occlusion in Restorative Dentistry: Technique and Theory* 1982 Churchill Livingstone
Holloway PJ and Swallow JN *Child Dental Health* 3rd ed 1982 Wright
Jenkins GN *The Physiology and Biochemistry of the Mouth* 4th ed 1978 Blackwell
Johnson DL and Stratton RJ *Fundamentals of Removable Prosthodontics* 1980 Quintessence
Kantorowicz GF *Inlays Crowns and Bridges* 4th ed 1985 Wright
Kennedy DP *Pediatric Operative Dentistry* 2nd ed 1986 Wright
Kerr DA et al *Oral Diagnosis* 6th ed 1983 Mosby
Lindhe J *Textbook of Clinical Periodontology* 2nd ed 1989 Munksgaard
Malamed SF *Handbook of Local Anaesthesia* 2nd ed 1986 Mosby
Nanda SK *Developmental Basis of Occlusion and Malocclusion* 1983 Quintessence
Ranly DM *A Synopsis of Craniofacial Growth* 2nd ed 1988 Appleton and Lange
Renper RP and Boucher LJ *Removable Partial Dentures* 1987 Quintessence
Roberts DH *Fixed Bridge Prosthodontics* 2nd ed 1980 Wright
Seltzer S and Bender IB *The Dental Pulp* 3rd ed 1984 Lippincott
Slack GL and Burt BA *Dental Public Health* 2nd ed 1981 Wright
Thompson H *Occlusion* 1975 Wright
*X-Rays in Dentistry* 2nd ed 1985 Kodak
526-039 MICROBIOLOGY

*Marsh PD and Martin MV *Oral Microbiology* 2nd ed 1984 Van Nostrand Reinhold

and either

*McGhee JR, Michalek SM and Cassell GH eds *Dental Microbiology* 1982 Harper and Row

or

*Schuster GS ed *Oral Microbiology and Infectious Disease* 3rd Student Edition 1989

Williams and Wilkins

Dolby AE Walker DM and Matthews N *Introduction to Oral Immunology* 1981

Edward Arnold

Fenner F and White DO *Medical Virology* 3rd ed 1986 Academic

531-039 PATHOLOGY

*Robbins SL and Kumar V *Basic Pathology* 4th ed 1987 Saunders


Hurley JV *Acute Inflammation* 2nd ed 1983 Churchill Livingstone

534-039 PHARMACOLOGY

*Katzung BG *Basic and Clinical Pharmacology*, 4th ed 1989 Appleton and Lange


Holroyd SV and Wynn RL *Clinical Pharmacology in Dental Practice* 4th ed 1988

Mosby

Neidle EA, Kroeger DC and Yagiela JA *Pharmacology and Therapeutics for Dentistry* 3rd ed 1989 Mosby

Rang HP and Dale MM *Pharmacology* 1987 Churchill Livingstone

FOURTH YEAR

511-401 DENTAL STUDIES 4

*Applied Behavioural Science*

Dworkin SF et al *Behavioural Science and Dental Practice* 1978 Mosby

*Cariology*

Newbrun E *Cariology* 3rd ed 1989 Quintessence

Thylstrup A and Fejerskov *Textbook of Cariology* 1986 Munksgaard

*Community Dental Health*

Ministerial Review of Dental Services in Victoria 1986 VGPO

Striffler DF, Young WO and Burt BA *Dentistry, Dental Practice and the Community* 3rd ed 1983 Saunders
Conservative Dentistry
Kantorowicz GF Crowns, Inlays and Bridges 4th ed 1985 Wright
Roberts DH Fixed Bridge Prosthodontics 2nd edn 1980 Wright

Endodontics
Cohen S and Burns RC Pathways of the Pulp 4th ed 1987 Mosby
A Guide to Clinical Endodontics 1987 Univ of Adelaide
Ingle JJ and Taintor JF Endodontics 3rd ed 1985 Lea and Febiger

Geriatric Dentistry
Franks AST and Hedegard B Geriatric Dentistry 1973 Blackwell

Growth Studies
Cooper HK et al Cleft Palate and Cleft Lip 1979 Saunders
Nanda SK Developmental Basis of Occlusion and Malocclusion 1983 Quintessence

Oral Medicine
*Bond MR Pain its Nature and Analysis and Treatment 2nd ed 1984 Churchill Livingstone
Burket LW Oral Medicine 8th ed 1984 Lippincott
Chisholm DM et al Introduction to Oral Medicine 1978 Saunders
Dolby AE Oral Mucosa in Health and Disease 1975 Blackwell
Halstead CL et al Physical Evaluation of the Dental Patient 1982 Mosby
Jones JH and Mason DK Oral Manifestations of Systemic Disease 1980 Saunders
Kay LW Drugs in Dentistry 2nd ed 1972 Wright
McCarthy PL and Shklar C Diseases of the Oral Mucosa 2nd ed 1980 Lea and Febiger
Mumford JM Orofacial Pain 3rd ed 1982 Churchill Livingstone

Oral Surgery
*Howe GL The Extraction of Teeth rev 2nd ed 1980 Wright
*Howe GL Minor Oral Surgery 3rd ed 1985 Wright
Archer WH Oral Surgery 5th ed 1975 Saunders
Killey HC, Seward GR and Kay LW An Outline of Oral Surgery Parts I & II 2nd ed 1988 Wright

Orthodontics
Adams CP Design and Construction of Removable Orthodontic Appliances 5th ed 1984 Wright
Foster TD Textbook of Orthodontics 2nd ed 1982 Blackwell
Graber TM Orthodontics 3rd ed 1972 Saunders
Graber TM, Rakosi T and Petrovic AG Dentofacial Orthopedics with Functional Appliances 1985 Mosby
Houston WJB and Tulley WJ A Textbook of Orthodontics 1986 Wright
Paediatric Dentistry
*Holloway PJ and Swallow IN Child Dental Health 3rd ed 1982 Wright
Braham RL and Morris ME Textbook of Pediatric Dentistry 2nd ed 1985 Williams and Wilkins
Kennedy DP Pediatric Operative Dentistry 2nd ed 1986 Wright
Magnusson BO Pedodontics a Systematic Approach 1981 Munksgaard

Periodontics
Grant DA, Stern IB and Listgarten MA Periodontics 6th ed 1988 Mosby
Lindhe J Textbook of Clinical Periodontology 2nd ed 1989 Munksgaard

Preventive Dentistry
Nizel AE Nutrition in Preventive Dentistry 2nd ed 1981 Saunders (PR)
Wahlqvist ML Foods & Nutrition in Australia 1981 Cassell (PR)

Removable Prosthodontics
Grant AA and Johnson W An Introduction to Removable Denture Prosthetics 1983
Churchill Livingstone
Johnson DL and Stratton RJ Fundamentals of Removable Prosthodontics 1980
Quintessence
MacGregor AR Fenn Liddelow and Gimson's Clinical Dental Prosthetics 3rd ed 1989
Wright
Renner RP and Boucher LJ Removable Partial Dentures 1987 Quintessence
Zarb GA et al Boucher's Prosthodontic Treatment for Edentulous Patients 10th ed 1990
Mosby

Radiography and Radiology
*Goaz PW and White SC Oral Radiology, Principles and Interpretations 2nd ed 1987
Mosby
Langland OE Langlais RP and Morris CR Principles and Practice of Panoramic
Radiology 2nd ed 1989 Saunders
Langland OE and Sippy FH Textbook of Dental Radiography 2nd ed 1984 Thomas
Poyton HG Oral Radiology 1982 Williams and Wilkins
Stafne EC and Gibilisco JA Oral Roentgenographic Diagnosis 5th ed 1985 Saunders
Worth HM Principles, Practice of Oral Radiologic Interpretation 1963 Year Book
Medical Publishers

511-402 ORAL PATHOLOGY

Saunders
Jones JH and Mason DK Oral Manifestations of Systemic Disease 1980 Saunders
Shear M Cysts of the Oral Regions 2nd ed 1983 Wright
Cawson RA and Eveson JW Oral Pathology and Diagnosis: Colour Atlas with
Integrated Text 1987 Heineman Medical Books
Lucas RB Pathology of Tumours of the Oral Tissues 4th ed 1984 Churchill
Livingstone
Pindborg JJ Pathology of the Dental Hard Tissues 1970 Munksgaard
Pindborg JJ Oral Cancer and Precancer 1980 Wright
Soames JV and Southam JC Oral Pathology 1985 OUP
553-411 MEDICINE
Lovell RRH and Doyle AE  *An Introduction to Clinical Medicine*  2nd ed 1971 MUP (PR)
Houston JC, Joiner CL and Trounce JR  *Short Textbook of Medicine*  8th ed 1985 Hodder and Stoughton
Macleod J  *Davidson's Principles and Practice of Medicine*  16th ed 1989 Churchill Livingstone

556-411 SURGERY
Dudley HAF  *Aid to Clinical Surgery*  4th ed 1989 Churchill Livingstone
Liechty RD and Soper RT  *Synopsis of Surgery*  5th ed  1985 Mosby

FIFTH YEAR

511-501 SELECTED ASPECTS OF CLINICAL DENTAL SCIENCE

Reading lists will be supplied early in the year.

Radiology

511-502 ORAL MEDICINE & ORAL SURGERY

Oral Medicine
*Bond MR  *Pain its Nature and Analysis and Treatment*  2nd ed 1984 Churchill Livingstone
Mason DK and Chisholm DM  *Salivary Glands in Health and Disease*  1975 Saunders
Wood NK and Goaz PW  *Differential Diagnosis of Oral Lesions*  3rd ed 1985 Mosby

Plus recommended books in Dental Studies 4

Oral Surgery
*Howe GL  *The Extraction of Teeth*  rev 2nd ed 1980 Wright
Killey HC and Kay LW  *The Impacted Wisdom Tooth*  2nd ed 1975 Churchill Livingstone
Banks P  *Killey's Fractures of the Middle Third of the Facial Skeleton*  5th ed 1987 Wright
Holroyd SV and Wynn RC  *Clinical Pharmacology in Dental Practice*  4th ed 1988 Mosby
Jones JH and Mason DK  *Oral Manifestations of Systemic Disease*  1980 Saunders
Killey HC  *Fractures of the Mandible*  3rd ed 1983 Wright
Killey HC and Kay LW  *The Maxillary Sinus and its Dental Implications*  1981 Wright
Killey HC, Kay LW and Seward GR  *Benign Cystic Lesions of the Jaws, their Diagnosis and Treatment*  3rd ed 1977 Churchill Livingstone
Mason DK and Chisholm DM  *Salivary Glands in Health and Disease*  1975 Saunders
Moore JR  *Surgery of the Mouth and Jaws*  1st ed 1985 Blackwell
Scully C and Cawson RA Medical Problems in Dentistry 2nd ed 1987 Wright
Zegarelli EV, Kutcher AH and Hyman GA Diagnosis of Disease of the Mouth and Jaws 2nd ed 1978 Lea and Febiger

Plus recommended books in Dental Studies 4

General Anaesthesia
Birch AA and Tolmie JD Anaesthesia for the Uninterested 2nd ed 1986 Aspen Press
Feldman S and Ellis H Principles of Resuscitation 2nd ed 1975 Blackwell
Hill CM and Morris PJ General Anaesthesia and Sedation in Dentistry A Dental Practitioners Handbook Series ed D Derrick 1983 Wright
Jorgensen NB and Hayden J Sedation Local and General Anaesthesia in Dentistry 3rd ed 1980 Lea and Febiger
Lunn JN Lecture Notes on Anaesthetics 3rd ed 1986 Blackwell

511-503 CONSERVATIVE DENTISTRY

Jong A ed Community Dental Health 2nd ed 1988 Mosby
Lindhe J Textbook of Clinical Periodontology 2nd ed 1989 Munksgaard
McDonald RE and Avery DL Dentistry for the Child and Adolescent 5th ed 1987 Mosby
Murray JJ ed The Prevention of Dental Disease 1983 OUP
Newbrun E ed Fluorides and Dental Caries 3rd ed 1986 Thomas
Ranly DM A Synopsis of Craniofacial Growth 2nd ed 1988 Appleton and Lange
Weil SHY Pediatric Dentistry: Total Patient Care 1988 Lea and Febiger

Plus books recommended in Dental Studies 4

511-504 RESTORATIVE DENTISTRY

Albrektsson T and Zarb GA The Branemark Osseointegrated Implant 1989 Quintessence
Allan DN and Foreman PC Crown and Bridge Prosthodontics An Illustrated Handbook 1986 Wright
Andreasen JO Traumatic Injuries of the Teeth 2nd ed 1981 Munksgaard
Ash M and Ramfjord SP An Introduction to Functional Occlusion 1982 Saunders
Brewer AA and Morrow RM Overdentures 2nd ed 1980 Mosby
Enlow D Handbook of Facial Growth 2nd ed 1982 Saunders
Gross MD Occlusion in Restorative Dentistry 1982 Churchill Livingstone
Hobo S, Ichida E and Garcia LT Osseointegration and Occlusal Rehabilitation 1989 Quintessence
Holm-Pederson P and Loe H Geriatric Dentistry 1986 Munksgaard
Ingle TI and Beverly EE Endodontics 3rd ed 1985 Lea and Febiger
Johnson DL and Stratton RJ Fundamentals of Removable Prosthodontics 1980 Quintessence
Preiskel HW Precision Attachments in Dentistry 3rd ed 1979 Kimpton
Remmer RP and Boucher LJ Removable Partial Dentures 1987 Quintessence
Rosenstiel SF, Land MF and Fujimoto J Contemporary Fixed Prosthodontics 1988 Mosby
Shillingburg HT, Jacobi R and Brackett SE *Fundamentals of Tooth Preparations for Cast Metal and Porcelain Restorations* 1987 Quintessence
Shillingburg HT and Kessler JC *Restoration of the Endodontically Treated Tooth* 1982 Quintessence
Smith BGN *Planning and Making Crowns and Bridges* 1986 Dunitz

**Plus recommended books in Dental Studies 4**
DEGREE OF MASTER OF DENTAL SCIENCE

Reading lists are available from the relevant staff

511-602 ORAL PATHOLOGY AND ORAL MEDICINE
511-611 ORAL SURGERY
511-603 ORAL ANATOMY, ORAL HISTOLOGY & ORAL EMBRYOLOGY
511-604 PAEDIATRIC DENTISTRY
511-605 PERIODONTICS
511-606 PREVENTIVE AND COMMUNITY DENTISTRY
511-607 RESTORATIVE DENTISTRY
511-608 DENTAL MATERIALS SCIENCE
511-609 ORTHODONTICS
511-610 ENDODONTICS