Pediatric Dentistry Curriculum
Master of Science Program
College of Dentistry
January, 2005

Requirements to successfully complete the Pediatric Dentistry option of the College of Dentistry's Master of Science degree program are as follows:

* Indicates a new course.

Admission Requirements:

Successful applicants will have a demonstrated commitment to the specialty of pediatric dentistry and evidence of a level of academic excellence consistent with the pursuit of a graduate degree. They must be graduates of an accredited U.S. or Canadian college of dentistry, with a grade point average of 3.0 or higher; have taken the Dental Aptitude Test (DAT); have successfully completed the National Boards, Part I and II; and be licensed to practice in a state or Canadian province. If English is a second language they must present a TOFEL score result of at least 560 (paper) or 220 (computer).

General Requirements:

- Satisfactory completion of specialty program requirements. Graduate students are required to participate in and fulfill all requirements of the course, clinical, and experiential activities associated with the University of Kentucky residency program in pediatric dentistry.
- Satisfactory completion of 24 hours of graduate credit, at least 13 of which must be from the “core curriculum.”
- Submission of an acceptable thesis based on an individual research project. (Plan A)
- Passage of a comprehensive examination and thesis defense.

The Curriculum:

First Year, Fall Semester

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>OBI 650</td>
<td>Oral Biology for Postgraduate Dental Students I</td>
<td>2</td>
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This seminar course provides a review of selected biological and bio-behavioral topics. Emphasis is placed on the use of current literature for an in depth study of those aspects of the subject particularly relevant to dental practice. 32 hours. Prerequisite: Admission to a
post-doctoral program in the College of Dentistry or consent of the instructor.

CDS 611 Child Growth and Development 2 credits

This seminar course is focused on postnatal craniofacial growth and development through adolescence. The purpose of the course is to acquaint the student with the scientific literature that supports current knowledge and understanding of the basic biologic principles that explain human growth and development from a clinical perspective. 32 hours.

ORT 660 Orthodontic Diagnosis 2 credits

This seminar course addresses methods and rationale for gathering a comprehensive data base for orthodontic patients. Analysis and interpretation of the data base is approached by using the orthogonal analysis technique. The process of developing a treatment plan from the data base is explored. 32 hours.

PDO 610 Pediatric Dentistry Seminar I * 2 credits

This seminar course is the first of a series of three such courses that discuss essential elements of clinical pediatric dentistry, with emphasis on the scientific evidence supporting contemporary practice. Topics for the seminars include: management of the child patient, prevention dentistry, restorative dentistry, pulp therapy, management of the arch circumference, abnormal dental development and treatment of children with special care needs. 32 hours. Prerequisite: Enrollment in the College of Dentistry's Master of Science degree program.

Credits: 8 (2 core)

First Year, Spring Semester

OBI 651 Oral Biology for Postgraduate Dental Students II 2 credits

This course is a continuation of OBI 650. It is a seminar that uses the scientific literature to review selected bio-behavioral science topics with emphasis on those especially relevant to dental practice. 32 hours. Prerequisite: OBI 650 or consent of the instructor.

CPH 605 Introduction to Epidemiology 3 credits

In this course students are taught the principles and methods of epidemiologic investigations, research methodology, and statistical integration. Major topics include etiologic factors of disease and injury, the distribution of health problems within
populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional and prospective studies are examined to illustrate odds ratio, relative risk, life tables, and person-years. Students are required to complete and submit a research proposal, present a topic paper, and serve as a co-facilitator for an article discussion.

CDS 631 Orofacial Pain and TM Disorders 2 credits

This course will present information regarding the diagnosis and management of Orofacial Pain and Temporomandibular Disorders. The course will consist of seminar presentations. The information provided in this course will allow the student to understand the dentist’s role in managing complex orofacial pain problems. This course will provide information that will assist the clinician in the differential diagnosis of orofacial pain disorders. The management of many orofacial pain disorders will be discussed but temporomandibular disorders will be emphasized since the dentist plays a major role in managing these pain disorders.

Credits: 8 (8 core)

First Year, Summer Session II

PDO 790 Research in Pediatric Dentistry 1-3 credits

This course provides credit for the student’s research. Prerequisite is enrollment in the pediatric dentistry track of the College of Dentistry’s Master of Science degree program.

PDO 620 Pediatric Dentistry Seminar II * 2 credits

This course is a continuation of PDO 610, addressing the issues of the clinical practice of contemporary pediatric dentistry. 32 hours. Prerequisite: PDO 610.

CDS 613 Contemporary Leadership in Dentistry * 1 credit

The purpose of the course is to explore the current leadership dilemma in the health professions (specifically dentistry) and to prompt extension of the role of oral health professionals to serve as leaders who engage a richer “public good” agenda as part of their role as “doctor/teacher.” Service learning opportunities will be integral components of the course. The course will concentrate on important issues such as leadership development and theories of leadership; team building; personality preferences and leadership; peer assessment; transformational and transactional leadership; mentoring; personal leadership; stress management; leading change; negotiation; and giving and receiving feedback. 16 hours.

Credits: 6
Second Year, Fall Semester

OPT 650  Graduate Oral Pathology I  2 credits

This is a seminar in advanced oral pathology in which students study the microscopic, radiographic, and clinical features and the management of diseases that affect oral and peri-oral tissues. A case study format is used to discuss both common and rare conditions that illustrate all major disease categories and to provide a framework for developing a systematic approach to disease diagnosis. 36 hours. Prerequisite: Admission to a post-doctoral program in the College of Dentistry or consent of the instructor.

PDO 630  Pediatric Dentistry Seminar III *  2 credits

This course is a continuation of PDO 610 and PDO 620, addressing the issues of contemporary practice in pediatric dentistry. Prerequisites: PDO 610 and PDO 620.

Credits: 4 (2 core)

Second Year, Spring Semester

OPT 651  Graduate Oral Pathology II  2 credits

This course is a continuation of OPT 650. It is a seminar in advanced oral pathology in which students study the microscopic, radiographic, and clinical features and the management of diseases that affect oral and peri-oral tissues. A case study format is used to discuss both common and rare conditions that illustrate all major disease categories and to provide a framework for developing a systematic approach to disease diagnosis. 36 hours. Prerequisite: OPT 650 or consent of instructor.

ORT 710  Management of Complex Orofacial Deformities  1 credit

Seminar discussing techniques in orthodontic problem-solving and treatment for patients with orofacial deformities refractory to either orthodontic therapy or oral surgery, but which are resolvable utilizing both. 16 hours.

PDO 640  Pediatric Seminar IV *  2 credits

This course reviews all the required and suggested readings in preparation for the comprehensive written section of the examination for certification by
the American Board of Pediatric Dentistry. 32 hours. Prerequisites: PDO 610, PDO 620, and PDO 630.

Credits: 5 (2 core)

Additional Courses:

PDO 748 Master’s Thesis Credit 0 credit
PDO 768 Residency Credit for Master’s Degree 1-6 credits

This course provides credit for development and completion of the thesis required for the master’s degree as described by the College of Dentistry and the Graduate School.

TOTAL CREDITS: 30-38 (13 core)
January 18, 2005

Sharon Turner, D.D.S., J.D.
Dean College of Dentistry
D-134 Dental Science Building
Lexington, KY 40536

Dear Dean Turner:

Please find attached five “Application for New Course” documents for PDO610, PDO620, PDO630, PDO640 and CDS 613. These new courses have been designed by Pediatric Dentistry faculty to fulfill degree requirements for the proposed Pediatric Dentistry track in our existing Master of Science program. A description of the curriculum for this proposed track also is attached. The new courses and curriculum description have been reviewed and approved by the Graduate Faculty of the College of Dentistry and the Master of Science Program Oversight Committee.

We ask for your endorsement of these new courses and this new track. Please feel free to contact us if you have any questions.

Thank you,

Karen Novak
Karen F. Novak, D.D.S., Ph.D.
Director of Graduate Studies

John Mink
John Mink, D.D.S., M.S.D.
Division Chief - Pediatric Dentistry

Jeff Okeson, D.M.D.
Chair – Oral Health Science
January 24, 2005

Memorandum

TO: Jeannine Blackwell, Ph.D.
Dean – Graduate School
Chair, Academic Council for the Medical Center

FROM: Sharon Turner, D.D.S., J.D.
Dean, College of Dentistry

RE: Request for approval of new courses

Please find attached five “Application for New Course” documents for PDO610, PDO620, PDO630, PDO640 and CDS 613. These new courses have been designed by Pediatric Dentistry faculty to fulfill degree requirements for the proposed Pediatric Dentistry track in our existing Master of Science program. A description of the curriculum for this proposed track also is attached. The new courses and curriculum description have been reviewed and approved by the Graduate Faculty of the College of Dentistry and the College of Dentistry Master of Science Program Oversight Committee.

These documents are being submitted for review by the Academic Council of the Medical Center. If you have any questions, please feel free to contact Dr. David Nash, MN 456, College of Dentistry at 323-2026. Thank you very much for your assistance with this process.

Thank you,

[Signature]

Sharon Turner, D.D.S., J.D.
Dean, College of Dentistry
Lyons, Marilyn

From: Nash, David A
Sent: Wednesday, February 09, 2005 10:00 AM
To: Lyons, Marilyn
Cc: Novak, Karen; Johnson, Jeffrey
Subject: Adjustments

Marilyn,

Thank you for calling our attention to the inconsistency in the CDS 613 course in the proposed Pediatric Dentistry track of the College of Dentistry’s Master of Science degree program. The two hours/week is a mistake; it is one hour/week and it is a one credit hour course. Can the correction be made on the application form you have, or should I submit a new form?

We propose shortening the four Pediatric Dentistry Seminars I,II,III, and IV, to Peds Dent Seminar I, II, III, and IV. If this does not conform to requirements, please do not hesitate to advise me.

We appreciate your assistance!

David

"Curiosity is the most insatiably of appetites"
Michel Foucault

David A. Nash, D.M.D., M.S., Ed.D.
William R. Willard Professor of Dental Education
Professor of Pediatric Dentistry
University of Kentucky Medical Center
800 Rose Street
Lexington, Kentucky 40536-0297
Office: 859.323.2026
Fax: 859.323.4685
Residence: 859.269.6833

2/9/2005
Pediatric Dentistry Curriculum Master of Science Program for the College of Dentistry had been discussed and approved at the February 15, 2005 Academic Council for the Medical Center's meeting.

Jeannine Blackwell
The Acting Director
Academic Council for the Medical Center