

UNLV School of Dental Medicine Advanced Education in Pediatric Dentistry Course Descriptions, updated Dec. 2012

Fall Semester for the First Year Pediatric Postgraduate Students

Year 1 Fall Courses

Course #	Course Title	Course Description	Course Pre-requisite
<i>ORTHO 8001</i>	<i>Intro to Orthodontics</i>	<ol style="list-style-type: none"> 1. Introduce the resident to clinical software and its application (IT orientation and Axium training) 2. Introduce the resident to the process of taking and coordinating orthodontic records 3. Introduce the resident to wire bending and wire sequencing learning 1st, 2nd, and 3rd order bends 4. Introduce the resident to cephalometrics and biomechanics (Typodont Course) 	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PEDO 8001</i>	<i>Introduction to Pediatric Dentistry</i>	This faculty led seminar includes lectures, reading assignments and assigned presentations. This is an intensive course which covers the entire content of the AAPD Reference Manual (oral health policies, clinical guidelines and resources).	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PEDO 8101</i>	<i>Clinical Seminars I (year one)</i>	Clinical Seminars 8101 and 8102 are a series of comprehensive seminars, which cover a wide range of topics over the residents' two-year training period. This series will provide the foundation to enable the residents to effectively function in the various clinical settings of the program.	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PEDO 8201</i>	Post-Graduate Clinic I (year one)	This course provides postgraduate students various clinic sites to perform pediatric dentistry for healthy children, medically compromised children, and physically and mentally challenged children from infants to adolescents in a diverse population.	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PEDO 8802</i>	Literature Review, Journal Club I (first year)	This course series provides for systematic discussion and review of required readings and pertinent current articles in preparation for the American Board of Pediatric Dentistry Written Examination.	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PEDO 8910</i>	Special Patient Care I (year one)	This course, which covers two years, will utilize various teaching modalities, including, but not limited to, case conferences, presentations, treatment planning, lectures from faculty and guests, literature review, and rotations. An evidence-based approach to learning will be an integral part of this course.	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PGDE 8402</i>	<i>Biomedical Sciences Core I</i>	<p>This course addresses the foundation knowledge required by post-doctoral dental residents to become proficient in:</p> <ol style="list-style-type: none"> 1. Diagnosis and treatment planning based on information about normal and abnormal growth and development 2. Use of the concepts gained in embryology and genetics in planning treatment 3. Use of knowledge of anatomy, histology and cell biology in planning and carrying out treatment 4. Clinical application of knowledge about the diagnosis, prevention and treatment of pathology of oral tissues 	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.
<i>PGDE 8701</i>	Methods of Literature Review/Scientific Writing	<ol style="list-style-type: none"> 1. Demonstrate ability to correctly utilize UNLV library services, and conduct searches on the WWW (Internet). 2. Demonstrate ability to search for literature, using key words, descriptors, identifiers, and thesauruses. 3. Organize the research literature using bibliographic software (e.g., ref works, etc). 4. Evaluate the reliability and validity of the literature. 5. Synthesize and submit literature review results as part of their proposal for research project. 	Admission to Pediatric Residency program at UNLV SDM first year or with approval of the course director.

Spring for the First Year Pediatric Postgraduate Students

Year 1 Spring Courses

Course #	Course Title	Course Description	Course Pre-requisite
<i>PEDO 8101</i>	<i>Clinical Seminars I (year one)</i>	Clinical Seminars 8101 and 8102 are a series of comprehensive seminars, which cover a wide range of topics over the residents' two-year training period. This series will provide the foundation to enable the residents to effectively function in the various clinical settings of the program.	Successful completion of the 1 st year fall semester courses.
<i>PEDO 8201</i>	<i>Post-Graduate Clinic I (year one)</i>	This course provides postgraduate students various clinic sites to perform pediatric dentistry for healthy children, medically compromised children, and physically and mentally challenged children from infants to adolescents in a diverse population.	Successful completion of the 1 st year fall semester courses.
<i>PEDO 8802</i>	<i>Literature Review, Journal Club I (first year)</i>	This course series provides for systematic discussion and review of required readings and pertinent current articles in preparation for the American Board of Pediatric Dentistry Written Examination.	Successful completion of the 1 st year fall semester courses.
<i>PEDO 8910</i>	<i>Special Patient Care I (year one)</i>	This course, which covers two years, will utilize various teaching modalities, including, but not limited to, case conferences, presentations, treatment planning, lectures from faculty and guests, literature review, and rotations. An evidence-based approach to learning will be an integral part of this course.	Successful completion of the 1 st year fall semester courses.
<i>PEDO 8930</i>	<i>Anesthesiology Rotation</i>	Training in the pharmacology, physiology, and administration of general anesthesia agents is provided through a one-month full-time assignment to a local anesthesia group. The postgraduate student works under the direct supervision of anesthesiology staff in the pre-surgery ward rounds, administration of anesthesia for all types of surgery, and the post-surgery rounds.	Successful completion of the 1 st year fall semester courses.
<i>PEDO 8940</i>	<i>Emergency Medicine Rotation</i>	The resident is assigned for two weeks to the Department of Emergency Medicine at University Medical Center (UMC) through University of Nevada School of Medicine Department of Emergency Medicine, Emergency Medicine Residency Program. During the rotation, the resident participates as a hospital staff in the Emergency Medicine service.	Successful completion of the 1 st year fall semester courses.
<i>PEDO 8950</i>	<i>Pediatric Medicine Rotation</i>	The resident is assigned for two weeks to the Department of Pediatrics at University Medical Center (UMC) through University of Nevada School of Medicine Department of Pediatrics, Pediatrics Residency Program. During the rotation, the resident participates as a hospital house staff in the General Pediatrics in-patient service to include rounds, house call, patient clinics. The rotation is designed to conform to the AAPD guidelines for pediatric medicine by providing the environment to emphasize a thorough, accurate history, and physical examination and to give the resident as much opportunity as possible to improve skills in taking, recording, and presenting a history and physical, and in using the information to arrive at reasonable possible diagnoses.	Successful completion of the 1 st year fall semester courses.
<i>PGDE 8403</i>	<i>Biomedical Science Core II</i>	<ol style="list-style-type: none"> 1. Integrate the biomedical concepts of dental practice as it relates To Pediatric Dentistry 2. Enhance problem-solving and critical thinking skills in Pediatric Dentistry 3. Enhance clinical decision-making skills 4. Discuss pertinent normal and abnormal biomedical dental conditions related to Pediatric Dentistry 5. Discuss pertinent biomedical relative to patient care delivery 6. Discuss contemporary issues relative to the biomedical basis of Pediatric Dentistry 	Successful completion of PGDE 8402.

Fall Semester for the Second Year Pediatric Postgraduate Students

Year 2 Fall Courses

Course #	Course Title		Course Pre-requisite
<i>PEDO8102</i>	<i>Clinical Seminar II (Second Year)</i>	Clinical Seminars 8101 and 8102 are a series of comprehensive seminars, which cover a wide range of topics over the residents' two-year training period. This series will provide the foundation to enable the residents to effectively function in the various clinical settings of the program.	Successful completion of PEDO 8101
<i>PEDO 8202</i>	<i>Postgraduate Clinic II (Second Year)</i>	This course provides postgraduate students various clinic sites to perform pediatric dentistry for healthy children, medically compromised children, and physically and mentally challenged children from infants to adolescents in a diverse population.	Successful completion of PEDO 8202
<i>PEDO 8803</i>	<i>Literature Review/Journal Club II (Second Year)</i>	This course series provides for systematic discussion and review of required readings and pertinent current articles in preparation for the American Board of Pediatric Dentistry Written Examination.	Successful completion of PEDO 8802
<i>PEDO 8911</i>	<i>Special Patient Care II (Second Year)</i>	This course, which covers two years, will utilize various teaching modalities, including, but not limited to, case conferences, presentations, treatment planning, lectures from faculty and guests, literature review, and rotations. An evidence-based approach to learning will be an integral part of this course.	Successful completion of PEDO 8910
<i>PGDE 8312</i>	<i>Advanced research</i>	<ol style="list-style-type: none"> 1. Understand the scientific method as it applies to critical review of the literature and research design 2. Understand literature search techniques and strategies as well as the different levels of research publications ranging from opinions, case reports, blinded studies, prospective research, randomized controlled clinical studies to systematic reviews. 3. Complete an independent research project to include an abstract, proposal, data collection, analysis and write up for submission to an appropriate peer-reviewed scientific journal 	Successful completion of 1 st . year courses
<i>PGDE 8516</i>	<i>Advanced Radiology Advanced Dental Imaging for the Clinical Sciences</i>	This is primarily a seminar design course with orientation lectures as needed to guide the student's review of the literature as it pertains to orthodontic imaging. Focus will be upon comparisons and treatment outcomes between traditional imaging methods and cone beam 3D computed tomography.	Successful completion of 1 st . year courses
<i>PGDE 8715</i>	<i>Practice Management</i>	<ol style="list-style-type: none"> 1. Identify and discuss issues in practice management 2. Enhance problem-solving and critical thinking skills in orthodontics 3. Enhance clinical decision-making skills 4. Discuss pertinent ethical issues in orthodontics 5. Discuss pertinent issues relative to patient care delivery, communication, and 6. practice management. 7. Discuss contemporary issues relative to professional ethics and controversial issues. 	Successful completion of 1 st . year courses

Spring Semester for the Second Year Postgraduate Students

Year 2 Spring Courses

Course #	Course Title	Course Description	Course Pre-requisite
PEDO 8102	<i>Clinical Seminar II (Second Year)</i>	Clinical Seminars 8101 and 8102 are a series of comprehensive seminars, which cover a wide range of topics over the residents' two-year training period. This series will provide the foundation to enable the residents to effectively function in the various clinical settings of the program.	Successful completion of PEDO 8101
PEDO 8202	<i>Postgraduate Clinic II (Second Year)</i>	This course provides postgraduate students various clinic sites to perform pediatric dentistry for healthy children, medically compromised children, and physically and mentally challenged children from infants to adolescents in a diverse population.	Successful completion of PEDO 8201
PEDO 8803	<i>Literature Review/Journal Club II (Second Year)</i>	This course series provides for systematic discussion and review of required readings and pertinent current articles in preparation for the American Board of Pediatric Dentistry Written Examination.	Successful completion of PEDO 8802
PEDO 8911	<i>Special Patient Care II (Second Year)</i>	This course, which covers two years, will utilize various teaching modalities, including, but not limited to, case conferences, presentations, treatment planning, lectures from faculty and guests, literature review, and rotations. An evidence-based approach to learning will be an integral part of this course.	Successful completion of PEDO 8910
PGDE 8312	<i>Advanced Research (Second Year)</i>	<ol style="list-style-type: none"> 1. Understand the scientific method as it applies to critical review of the literature and research design 2. Understand literature search techniques and strategies as well as the different levels of research publications ranging from opinions, case reports, blinded studies, prospective research, randomized controlled clinical studies to systematic reviews. 3. Complete an independent research project to include an abstract, proposal, data collection, analysis and write up for submission to an appropriate peer-reviewed scientific journal 	Successful completion of 1 st . year courses
PGDE 8414	<i>Pharmacology</i>	<p>Discuss general principles of pharmacology as they relate to clinical pediatric dentistry.</p> <p>Discuss issues related to the selection of current and accepted pharmacotherapy for the medical management of pain in the oral health care setting.</p> <p>(a) Local anesthetic agents (b) Analgesics (c) Adjuvant analgesics</p> <p>Discuss issues related to the selection of current and accepted pharmacotherapy for the medical management of infections in the oral health care setting.</p> <p>(a) Bacterial (b) Viral (c) Fungal</p> <p>Obtain an accurate drug history and based on knowledge and the use of information technology</p> <p>Identify the drug's class, mechanism of action, indications for use, and clinical implications.</p> <p>Implement current and accepted pharmacotherapy for the management of pain in the oral health care setting.</p> <p>(a) Local anesthetics (b) Analgesics (c) Adjuvant analgesics</p> <p>Implement current and accepted pharmacotherapy for the management of infection in the oral health care setting.</p> <p>(a) Bacterial (b) Viral (c) Fungal</p> <p>Develop appropriate diagnostic, preventive and therapeutic strategies based on an assessment of the patient's emotional and physical ability to undergo and respond to dental care.</p> <p>Demonstrate the values (virtues) that the doctor-patient relationship is expected to have in the clinical process related to professionalism, privacy, confidentiality, informed consent, empathy, honesty, tact, and sensitivity.</p>	Successful completion of 1 st . year courses

Spring Semester for the Second Year Postgraduate Students

Year 2 Spring Courses Cont'd

Course #	Course Title	Course Description	Course Pre-requisite
<i>PGDE 8716</i>	<i>Practice Management (Second Year)</i>	<ol style="list-style-type: none">1. Identify and discuss issues in practice management2. Enhance problem-solving and critical thinking skills in orthodontics3. Enhance clinical decision-making skills4. Discuss pertinent ethical issues in orthodontics5. Discuss pertinent issues relative to patient care delivery, communication, and6. practice management.7. Discuss contemporary issues relative to professional ethics and controversial issues.	<i>Successful Completion of PGDE 8715</i>