<table>
<thead>
<tr>
<th>COURSE</th>
<th>DIRECTOR</th>
<th>DAY / TIME</th>
<th>START</th>
<th>END</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Oral Pathology (1hr) (OBIO-0635-617)*</td>
<td>Dr. Mark Bernstein</td>
<td>Wednesdays 3:00 - 5:00 p.m.</td>
<td></td>
<td></td>
<td>124</td>
</tr>
<tr>
<td>All disciplines</td>
<td><a href="mailto:Milbern01@louisville.edu">Milbern01@louisville.edu</a></td>
<td>July 8</td>
<td>Aug 5</td>
<td>Sept 16</td>
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<tr>
<td></td>
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<td>July 22</td>
<td>Sept 2</td>
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<td>July 29</td>
<td>Sept 9</td>
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<tr>
<td>Multi-Disciplinary Seminars</td>
<td>Dr. Juliet Dunaway</td>
<td>2nd Wed of month from 5:30 - 6:30 p.m.</td>
<td></td>
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</tr>
<tr>
<td>All disciplines</td>
<td><a href="mailto:Jhduna01@louisville.edu">Jhduna01@louisville.edu</a></td>
<td>September 9</td>
<td>Nov 11</td>
<td></td>
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<td>October 14</td>
<td>Dec 9</td>
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<tr>
<td>Biomedical Data Analysis</td>
<td>Dr. L. Jane Goldsmith</td>
<td>Monday &amp; Thursdays 5:30 - 7:00 p.m.</td>
<td>8/17</td>
<td>12/10</td>
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<tr>
<td>Experimental Design &amp; Statistics (3hrs) (OBIO-0635-501)* (PHST 500)</td>
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<td>(NURS562)</td>
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<tr>
<td>Endo, Pedo, Ortho</td>
<td><a href="mailto:lgodl01@louisville.edu">lgodl01@louisville.edu</a></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>X8780</td>
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<tr>
<td>Introduction to Oral Biology Research (2hrs) (OBIO-0635-601)*</td>
<td>Dr. Doug Darling</td>
<td>Wednesdays 12:00 - 1:00 p.m.</td>
<td>08/26</td>
<td>12/2</td>
<td>345-D</td>
</tr>
<tr>
<td>Endo, Pedo, Ortho</td>
<td><a href="mailto:Dsdarl01@louisville.edu">Dsdarl01@louisville.edu</a></td>
<td></td>
<td></td>
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<tr>
<td>Diagnosis &amp; Treatment of Temporomandibular Disorders &amp; Orofacial Pain (1 hr) (OBIO-0635-613)*</td>
<td>Dr. Carmine Esposito</td>
<td>Meeting times below - July 2 - 8:30 am - GPR Orientation - GPR clinic July 2 - 12 pm - Orientation in room 345 Aug 25 - all groups meet room 345</td>
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</tr>
<tr>
<td>Ortho, Perio, GPR</td>
<td><a href="mailto:Cjespo01@louisville.edu">Cjespo01@louisville.edu</a></td>
<td></td>
<td></td>
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<tr>
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<tr>
<td>Implant Dentistry</td>
<td>Dr. Henry Greenwell</td>
<td>Tuesdays from 1:00 - 5:00 p.m.</td>
<td></td>
<td></td>
<td>345</td>
</tr>
<tr>
<td>Perio, Endo, Ortho, GPR, Oral Surgery</td>
<td><a href="mailto:perichen@pt.com">perichen@pt.com</a></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Diagnoses and Oral Medicine (1 hr) (OBIO-0635-614)*</td>
<td>Dr. Wendy Hupp</td>
<td>Mondays 12:00 - 1:00 p.m.</td>
<td>9/14</td>
<td>12/7</td>
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</tr>
<tr>
<td>Endo, Pedo, GPR, Perio</td>
<td><a href="mailto:Wshupp01@louisville.edu">Wshupp01@louisville.edu</a></td>
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<tr>
<td>Craniomaxillofacial Diagnostic Imaging (2/4 hrs) (OBIO-0635-612)*</td>
<td>Allan Farman</td>
<td>Thursdays 8:30-10:00 AM</td>
<td>8/13</td>
<td>12/10</td>
<td>Ortho Conference Room</td>
</tr>
<tr>
<td>Ortho</td>
<td><a href="mailto:Agfarm01@louisville.edu">Agfarm01@louisville.edu</a></td>
<td></td>
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<td>Room</td>
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<tr>
<td></td>
<td>x1241</td>
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</tbody>
</table>

M.S. in Oral Biology Students Must Register for these courses if they are to be used toward the degree. The only required OBIO courses offered this semester are OBIO 501 and OBIO 601.

Updated August 23, 2009
## School of Dentistry
### Postdoctoral Course Schedule
#### SPRING 2009

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DIRECTOR</th>
<th>DAY / TIME</th>
<th>START DATE</th>
<th>END DATE</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>Advanced Clinical Pharmacology (OBIO-0635-615)* (GPR, Pedo, Perio, Endo)</td>
<td>Dr. John Firriolo</td>
<td>Tuesdays 12:00 - 1:00 PM</td>
<td>1/13/08</td>
<td>4/28/08</td>
<td>130-DEC</td>
</tr>
</tbody>
</table>
| Pass/Fail                                                              | fjfirr01@louisville.edu  
x1236            |                                                 |            |          |           |
| Multi-Disciplinary Seminars (All Residents)                            | Dr. Juliet Dunaway                            | 2nd Wed of month from 5:00 - 6:00 p.m.         | 1/14/08    | 4/8/08   | 124       |
| Pass/Fail                                                              | jhduna01@louisville.edu  
x5838            | January 14th  
February 11th  
March 11th |            |          |           |
| Oral Biology Seminar (OBIO-0635-606)* (Endo, Ortho, Pedo, Perio)       | Dr. David Scott                               | Wednesdays 12:00 - 1:00 p.m.                   | 1/7/08     | 4/29/08  | 345-D     |
| Graded                                                                | dascott07@louisville.edu  
x8905           |                                                 |            |          |           |
| Medical Genetics in Oral Diagnosis (OBIO-0635-616)* (Ortho, Pedo)      | Dr. Norbert Burzynski                         | Mondays 8:30 am - 10:00 a.m.                    | 1/7/08     | 4/29/08  | 345 D     |
| Pass/Fail                                                              | njburz01@louisville.edu  
x 1239           |                                                 |            |          |           |
| Graduate Periodontic Series (Perio, GPR)                              | Dr. John Virag                                | Tuesdays 9:00 - 10:00 a.m.                     | 1/27/08    | 4/28/08  | Perio Conference Room |
| Graded                                                                | jgvira01@louisville.edu  
x6928            |                                                 |            |          |           |
| Advanced Head and Neck Anatomy (ASNB 675)* (Endo, GPR, Ortho, Pedo, Perio) | Dr. Ferrel Campbell                         | Fridays 9:00 - 10:00 a.m. lecture 10-12:00 p.m. | 1/9/08     | 3/13/08  | lecture Room B-107 Lab Room B-313 lab |
| Graded                                                                | frcamp01@louisville.edu  
x5173            |                                                 |            |          |           |
| Concepts in Oral Immunology (OBIO-500)* (Endo, Pedo, Perio)            | Dr. Mike Martin                              | Mondays 12:00 - 1:00 p.m.                      | 1/5/08     | 4/27/08  | 345-D     |
| Pass/Fail                                                              | m0mart08@louisville.edu  
x6928            |                                                 |            |          |           |
| Practice Management Seminar (GPR and OMFS)                            | Dr. Doug McCall                              | Thursdays 3:00 - 5:00 p.m.                     | 1/8/08     | 4/23/08  | 124       |
| Pass/Fail                                                              | dhmccall01@louisville.edu  
x1404           |                                                 |            |          |           |

* M.S. in Oral Biology Students Must Register

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Updated 10/17/2008
### Sample Students'/Residents' Schedules

<table>
<thead>
<tr>
<th>Month/Year</th>
<th>Resident – Year 1</th>
<th>Resident – Year 2</th>
</tr>
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</table>
| July       | Literature and Textbook Review  
Case Presentation  
Clinic  
Implant Dentistry | Literature and Textbook Review  
Case Presentation  
Clinic |
| August     | Literature and Textbook Review  
Case Presentation  
Clinic  
Implant Dentistry  
Advanced Oral Pathology  
Biomedical Data Analysis  
Introduction to Oral Biology  
Diagnosis & Treatment of Temporomandibular Disorders  
Diagnosis & Oral Medicine | Literature and Textbook Review  
Case Presentation  
Clinic  
Craniomaxillofacial Diagnostic Imaging |
| September  | Literature and Textbook Review  
Case Presentation  
Clinic  
Advanced Oral Pathology  
Biomedical Data Analysis  
Introduction to Oral Biology  
Diagnosis & Treatment of Temporomandibular Disorders  
Diagnosis & Oral Medicine  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference | Literature and Textbook Review  
Case Presentation  
Clinic  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference |
| October    | Literature and Textbook Review  
Case Presentation  
Clinic  
Biomedical Data Analysis  
Introduction to Oral Biology  
Diagnosis & Oral Medicine  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference | Literature and Textbook Review  
Case Presentation  
Clinic  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference |
| November   | Literature and Textbook Review  
Case Presentation  
Clinic  
Biomedical Data Analysis  
Introduction to Oral Biology  
Diagnosis & Oral Medicine  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference | Literature and Textbook Review  
Case Presentation  
Clinic  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference |
| December   | Literature and Textbook Review  
Case Presentation  
Clinic  
Biomedical Data Analysis  
Introduction to Oral Biology  
Diagnosis & Oral Medicine  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference | Literature and Textbook Review  
Case Presentation  
Clinic  
Craniomaxillofacial Diagnostic Imaging  
Multidisciplinary Conference |

appendix 3
ORTHODONTICS

ADVANCED EDUCATION IN ORTHODONTICS

Curriculum

First Year – Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Faculty</th>
</tr>
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<tbody>
<tr>
<td>ORTHO 900 Principles of Biomechanics</td>
<td>Engilman</td>
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<tr>
<td>ORTHO 901 Biomechanics Preclinical Technique</td>
<td>Chandiramani</td>
</tr>
<tr>
<td>ORTHO 910 Cephalometrics</td>
<td>Schuler/Tasman</td>
</tr>
<tr>
<td>ORTHO 920 Advanced Diagnostic Sciences in Orthodontics</td>
<td>Silveira</td>
</tr>
<tr>
<td>ORTHO 930 Clinical Orthodontics I</td>
<td>Faculty</td>
</tr>
<tr>
<td>ORTHO 930 Dental Emergency (CPR), Infection/Control/OSHA Regulations</td>
<td></td>
</tr>
<tr>
<td>Jurisprudence/Ethics</td>
<td>Peterson</td>
</tr>
<tr>
<td>ORTHO 902 Biomechanics and Principles of Appliance Design</td>
<td>Silveira</td>
</tr>
<tr>
<td>GRAD 982 Multidisciplinary Seminars</td>
<td>Clark</td>
</tr>
<tr>
<td>ORTHO 941 Craniofacial Embryology and Genetics</td>
<td>Moshiri</td>
</tr>
<tr>
<td>Implant Dentistry, Orthodontic and Periodontics Seminar</td>
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<tr>
<td>OBIO 611 Craniofacial Osteology</td>
<td>Greenwell/Johnson</td>
</tr>
<tr>
<td>OBIO 613 Diagnosis and Treatment of TMJ Disorders</td>
<td>Silveira</td>
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<tr>
<td>OBIO 617 Advanced Oral Pathology</td>
<td>Esposito</td>
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<tr>
<td>OBIO 501 Biomedical Data Analysis, Experimental Design and Statistics</td>
<td>Bernstein</td>
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<tr>
<td>OBIO 601 Introduction to Oral Biology Research</td>
<td>Scheetz</td>
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<tr>
<td>ORTHO 921 Case Presentation Seminar I</td>
<td>Darling</td>
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<tr>
<td>ORTHO 940 Growth and Development</td>
<td>Johnson</td>
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<tr>
<td>ORTHO 859 Clinical Photography</td>
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<tr>
<td>ORTHO 970 Research Development I</td>
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First Year – Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>ANSB 675 Advanced Head and Neck Anatomy</td>
<td>Campbell</td>
</tr>
<tr>
<td>ORTHO 942 Growth and Development</td>
<td>Haskell</td>
</tr>
<tr>
<td>OBIO 612 Craniomaxillofacial Diagnostic Imaging [every other year]</td>
<td>Farman</td>
</tr>
<tr>
<td>OBIO 616 Overview of Medical Genetics in Oral Facial Disease</td>
<td>Burzynski</td>
</tr>
<tr>
<td>ORTHO 932 Clinical Orthodontics II</td>
<td>Faculty</td>
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<tr>
<td>ORTHO 950 Literature Review</td>
<td>Chandiramani/Silveira</td>
</tr>
<tr>
<td>ORTHO 922 Case Presentation Seminar II [transitional dentition]</td>
<td>Johnson</td>
</tr>
<tr>
<td>OBIO 606 Oral Biology Seminar/Introduction to Research Methods</td>
<td>Scott</td>
</tr>
<tr>
<td>GRAD 982 Multidisciplinary Seminars</td>
<td>Clark</td>
</tr>
<tr>
<td>ORTHO 960 Orthognathic/Orthodontic Surgery</td>
<td>Moshiri</td>
</tr>
<tr>
<td>ORTHO 904 Advanced Biomechanics Techniques I</td>
<td>Engilman</td>
</tr>
</tbody>
</table>
Clinical Area: **Treatment Plans for patients with special health care needs**

________________________________________________________________________

Year Offered: 1st & 2nd years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

__________________________

_______ Formal course—Title:  
*Contemporary Pediatric Dentistry*
*Case Presentations*
*Multidisciplinary Seminar*

_______ Off-service rotation to: none

__________________________

- Total hours of instruction: 20 - 24 hours of lecture and seminar
  *Many hours in clinic instruction*

- What is the level of instruction: indepth

Is instruction in this subject the same as that provided to:

a. undergraduate dental students/residents? _______ Yes X No
b. predoctoral medical students/residents? _______ Yes X No

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students’/residents’ clinical experiences in this area.

**This area is covered in detail in lecture and seminar. Many discussions in the clinic cover this area of understanding.**
Clinical Area: **Craniofacial Growth & Development**  
Year Offered: 1st & 2nd years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

- Formal course—Title:  
  - Growth and Development – 1st year
  - Craniofacial Team – 2nd year

- Off-service rotation to: none

- Total hours of instruction: 16-18 hours of lecture and seminar

- What is the level of instruction: indepth

Is instruction in this subject the same as that provided to:

a. undergraduate dental students/residents? Yes X No
b. predoctoral medical students/residents? Yes X No

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students'/residents’ clinical experiences in this area.

**This area is covered in detail in lecture and seminar. Many discussions in the clinic cover this area of understanding.**
Clinical Area: **Medical Emergencies**  
Year Offered: 1st & 2nd years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

- Formal course—Title:  
  Contemporary Pediatric Dentistry  
  Orientation organized by the school

- Off-service rotation to:  
  Anesthesiology Rotation  
  Emergency Department Rotation  
  PALS Training

- Total hours of instruction: 8-10 hours of lecture and seminar  
  Many hours in the clinic

- What is the level of instruction: indepth

  Is instruction in this subject the same as that provided to:

  a. undergraduate dental students/residents?  
     Yes X No

  b. predoctoral medical students/residents?  
     Yes X No

  If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students'/residents' clinical experiences in this area.

  **This area is covered in detail in lecture and seminar. Many discussions in the clinic cover this area of understanding. This area is covered in the beginning of the residency and before a resident can participate in sedation patient care.**
Clinical Area: **Pediatric oral and maxillofacial radiology**  
Year Offered: 1st & 2nd years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

  Formal course—Title:  **Contemporary Pediatric Dentistry**  
  **Craniomaxillofacial Diagnostic Imaging**

- Off-service rotation to: none

- Total hours of instruction: 8 – 10 hours of lecture and seminar
  5 hours Lit Review / AAPD Guidelines
  Many hours clinical instruction

- What is the level of instruction: indepth

Is instruction in this subject the same as that provided to:

a. undergraduate dental students/residents? ________  Yes  X No

b. predoctoral medical students/residents? ________  Yes  X No

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students’/residents’ clinical experiences in this area.

This area is covered in detail to allow the residents to have appropriate images. Diagnostic quality images are fundamental to good patient care.
Clinical Area: **Oral Diseases and patients with special health care needs**

Year Offered: 1st & 2nd years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

- Formal course—Title: **Contemporary Pediatric Dentistry**

- Off-service rotation to: **Home of the Innocents Rotation**

- Total hours of instruction: 12-14 hours of lecture and seminar
  8 hours per week at Home of the Innocents
  many hours in Clinical discussions

- What is the level of instruction: indepth

Is instruction in this subject the same as that provided to:

- undergraduate dental students/residents? Yes[XNo]
- predoctoral medical students/residents? Yes[XNo]

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students'/residents' clinical experiences in this area.

This area is covered in detail in lecture and seminar. Eight hours every month the residents visit the Home of the Innocents and many hours are spent in clinical discussions at the chairside.
Clinical Area: **Conscious Sedation, deep sedation, general anesthesia**  

Year Offered: 1\textsuperscript{st} & 2\textsuperscript{nd} years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

  - Formal course—Title: **Contemporary Pediatric Dentistry Literature Review**
  - Off-service rotation to: **Anesthesiology Rotation Sedation Rotation**

- Total hours of instruction: 12 - 15 hours of lecture and seminar  
  many hours weekly at the KCH Out Patient Surgery

- What is the level of instruction: indepth

  Is instruction in this subject the same as that provided to:

  a. undergraduate dental students/residents? Yes X No
  b. predoctoral medical students/residents? Yes X No

  If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students'/residents' clinical experiences in this area.

  **This area is covered in detail in lecture and seminar, in our review of the AAPD Guidelines, in Lit Review and in the OR every week.**
Clinical Area: **Behavior Management**  
Year Offered: 1st & 2nd years

- Indicate how instruction is provided in this subject area: lecture, seminar, in the clinic

- Formal course—Title: **Contemporary Pediatric Dentistry**

- Off-service rotation to:  
  - Emergency Medicine Rotation
  - Home of the Innocents Rotation
  - Pediatric Medicine Rotation

- Total hours of instruction: 20-22 hours of lecture and seminar
  - many hours of discussion in the clinic

- What is the level of instruction: indepth

Is instruction in this subject the same as that provided to:

a. undergraduate dental students/residents?  
   - Yes No

b. predoctoral medical students/residents?  
   - Yes No

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students'/residents' clinical experiences in this area.

This area is covered in detail in lecture, in seminar and in clinic discussions. This is a fundamental cornerstone of being a pediatric dentist and is addressed on many occasions in many ways.
Subject Area: **Oral Pathology**  
Year Offered: 1st year

- Indicate how instruction is provided in this subject area: classroom lecture, seminar, in the clinic

  Formal course—Title:  
  Advanced Oral Pathology  
  Contemporary Pediatric Dentistry

  Off-service rotation to: none

- Total hours of instruction: 2 hour per week = 8 hours of instruction  
  Seminar = 2 hours

- What is the level of instruction: understanding

  Is instruction in this subject the same as that provided to:

  a. undergraduate dental students/residents?  
     Yes [X] No

  b. predoctoral medical students/residents?  
     Yes [X] No

  If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students'/residents' instruction in these areas.

  The instruction is broad. The residents are capable of recognizing oral pathology and discussing the treatment options with patients and parents.
Subject Area: **Genetics**  

- Indicate how instruction is provided in this subject area: classroom lecture

  ________ Formal course—Title: **Medical Genetics in Oral Diagnosis**

  ________ Off-service rotation to: none

- Total hours of instruction: 1 hour per week = 17 hours of instruction

- What is the level of instruction: proficiency

  Is instruction in this subject the same as that provided to:
  
a. undergraduate dental students/residents? ________ Yes XNo

  b. predoctoral medical students/residents? ________ Yes XNo

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students’/residents’ instruction in these areas.

  **The instruction is broad and detailed. The residents are capable of discussing the origin of craniofacial defects and their management with patients and parents.**
Reproduce the form below as needed and indicate how training is provided in each of the required subject areas identified in Standards 4-3.1 a-g and 4-3.2 a-b.

Subject Area: **Biostatistics**

Year Offered: **1st year**

- Indicate how instruction is provided in this subject area: classroom lectures from school statistician
  
  - Formal course—Title: **Biomedical Data Analysis**
  
  - Off-service rotation to: none

- Total hours of instruction: **3 hours per week** = **105 hours of instruction**

- What is the level of instruction: proficiency

Is instruction in this subject the same as that provided to:

a. undergraduate dental students/residents? **Yes** X **No**

b. predoctoral medical students/residents? **Yes** X **No**

If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students’/residents’ instruction in these areas.

**The instruction is broad and detailed. The residents are capable of reading and understanding literature containing statistics and capable of understanding the analysis of their own research projects.**
Subject Area: **Pharmacology**  

Year Offered: 1st year

- Indicate how instruction is provided in this subject area: classroom lecture, seminar, in the clinic

  — Formal course—Title:  
  Advanced Clinical Pharmacology  
  Contemporary Pediatric Dentistry

  — Off-service rotation to: none

- Total hours of instruction: 1 hour per week = 17 hours of instruction  
  Seminar = 12 hours of instruction

- What is the level of instruction: proficiency

  Is instruction in this subject the same as that provided to:
  
  a. undergraduate dental students/residents? —— Yes X No
  b. predoctoral medical students/residents? —— Yes X No

  If YES, describe how this instruction is modified for the advanced education program.

- Assess the scope and effectiveness of the students’/residents’ instruction in these areas.

The instruction is broad and detailed. The residents are capable of discussing medications with patients and parents.