PEDIATRIC DENTISTRY SYLLABI

BUIDRE

2008-2009

PD 802: Fundamentals of Pediatric Dentistry

Course Instructor: Dr. Dina Debaybo

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 2

Prerequisites: DMD or equivalent

Co-requisites: None

Course Description: Fundamentals of Pediatric Dentistry is an intensive lecture series given to incoming students every July that covers the fundamental concepts of the practice of pediatric dentistry. The course is intended to familiarize the new student with concepts they will encounter in the various clinical settings.

During the first month in the program, the students must successfully complete the national cognitive and skills evaluations in accordance with the curriculum of the American Heart Association for the Pediatric Advanced Life Support Program.

In addition to the didactic component, a 2-day preclinical course is undertaken. Procedures include: placement of sealants, preventive resin restorations, basic intracoronal cavity preparation, pulp therapy techniques, stainless steel crown preparation and fitting, space maintainer fabrication.

The primary goal is to familiarize the student with the scope of the specialty of pediatric dentistry and ensure that each student has the basic knowledge and technical skills to proceed with the required didactic and clinical aspects of the program.

The specific objectives of the course are:

1: To become familiar with fundamentals concepts of clinical pediatric dentistry
2: To review and become familiar with the standard textbooks on pediatric dentistry
3: To review and practice pediatric restorative techniques in a preclinical setting

Intended Learning Outcomes: At the completion of this course the student will have an in-depth understanding of the fundamental concepts of the practice of pediatric dentistry, be familiar with the standard text(s) in pediatric dentistry and have sufficient knowledge of pediatric dental concepts and practices to be able to safely treat pediatric dental patients in clinical settings.

Course Topics and Content:

- Examining the Child Patient
- Medical and Dental Records

- Dental Caries in Children
- Prevention: Fluoride/Sealants
- Normal Child Development
- Nonpharmacologic Behavior Management
- Pediatric Radiology
- Local Anesthesia
- Pharmacologic Behavior Management
- Pulp Therapy
- Traumatic Injuries
- Patients with Special Health Care Needs
- Periodontal Disease
- Pharmacology–Therapeutics
- Child Abuse and Neglect
- Restorative Dentistry.

Assignments: There are no specific assignments. Class attendance and participation are required

Methods of Student Evaluation: A written examination worth 100% of the grade is given at the completion of the course. A minimum grade of C must be obtained in order to successfully pass the course and progress to treatment of pediatric patients in the various clinical settings.

Preclinical exercises are graded Pass/Fail– the student must receive a pass in this section of the course.

The student must become certified by the American Heart Association in Pediatric Advanced Life Support

Teaching and Learning Methodologies: Classroom lecture and discussion.

Course Texts, Recommended Reading, Material and Resources:

- McDonald and Avery: Dentistry for the Child and Adolescent. 8th Ed Mosby
- Cameron and Widmer: Handbook of Pediatric Dentistry. 2nd Ed Mosby
- American Heart Association: PALS Provider Manual

PD 808: Orthodontics for Pediatric Dentists

Course Instructor: Dr. Elif Keser

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 1

Prerequisites: DMD or equivalent

Co-requisites: None

Course Description: Orthodontics for Pediatric Dentists is an intensive didactic course on craniofacial growth and development that enables the student to diagnose, consult with and/or refer to other specialists, problems affecting orofacial esthetics, form or function. The course begins in July and August with preclinical sessions on band placement and wire bending, followed by a cephalometric course.

The goal of the course is for the student to gain competency in the diagnosis of abnormalities in the developing dentition and treatment principles of those conditions which can be corrected or significantly improved by the early utilization of limited procedures.

The specific objectives are to gain an in-depth understanding of:

1: diagnosis of abnormalities of the developing dentition
2: diagnostic records and analysis
3: space maintenance
4: correction of deleterious oral habits
5: interceptive orthodontics
6: comprehensive orthodontics

Intended Learning Outcomes:

At the completion of this course, the student will:

- understand the various theories of growth mechanisms
- understand the principles of comprehensive diagnosis and treatment planning
- be able to identify normal and abnormal dentofacial growth and development
- understand the indications and contraindications for extraction and non-extraction therapy
- understand the principles of growth modification, dental compensation for skeletal problems and growth prediction
- understand treatment modalities
- be familiar with the current relevant literature as well as the recommended American Academy of Pediatric Dentistry articles on growth and development

Course Topics and Content:

- Diagnosis and treatment planning
- Cephalometric analysis
- Banding techniques and fixed appliances
- Biomechanics
- Interceptive orthodontics
- Space management
- Impacted teeth and retention

Assignments: No out of class assignments.

Methods of Student Evaluation: Two written examinations of equal weight are given: one at the completion of the lecture series and the other at the completion of the literature review. A grade of C must be obtained to successfully complete the course.

Teaching and Learning Methodologies: lecture, class discussion and technique laboratory

Course Texts, Recommended Reading, Material and Resources:

1. McDonald and Avery: Dentistry for the Child and Adolescent: 8th Edition, Mosby
2. Bjork A. Sutural growth of the upper face studied by the metallic implant method. *Acta Odontol Scand* (1966) 24: 109-127.
3. Fuller D, West V. The 'functional matrix' hypothesis: current concepts and conflicts. *Aust Orthod J* (1986)9: 324-328.
4. Moss ML. The functional matrix. In Kraus BS, Riedel RA, eds. *Vistas in Orthodontics*. Philadelphia: Lea and Febiger, (1962) 85-98.
5. Moss ML, Salentijn L. The capsular matrix. *Am J Orthod* (1969) 56: 474-490.
6. Scott JH. The cartilage of the nasal septum. A contribution to the study of facial growth. *Br Dent J* (1953) 95: 37-43.
7. Thilander B. Basic mechanisms in craniofacial growth. *Acta Odontol Scand* (1995)53: 144-151.
8. Van Limborg J. A new view on the control of the morphogenesis of the skull. *Acta Morphol Neerl Scand* (1970) 8: 143-160.
9. Wagemans PAHM, van de Velde J, Kuijpers-Jagman AM. Sutures and forces: A review. *Am J Orthod Dentofac Orthop* (1988) 94: 129-141.
10. Fanning EA. Longitudinal study of tooth formation and root resorption. *NZ Dent J* (1961) 57: 202-217.
11. Fanning EA. The effect of extraction of deciduous molars on the formation and eruption of their permanent successors. *Angle Orthod* (1962) 32: 44-53.
12. Gron A. Prediction of tooth emergence. *J Dent Res* (1962) 41: 573-585.
13. Moorrees CFA, Fanning EA, Gron A. The consideration of dental development in serial extraction. *Angle Orthod* (1963) 33: 44-59.
14. Posen AL. The effect of premature loss of deciduous molars on premolar eruption. *Angle Orthod* (1965) 35: 249-252.

15. Armstrong C, Johnston C, Burden D, Stevenson M. Localizing ectopic maxillary canines–horizontal or vertical parallax? *Eur J Orthod* (2003)25: 585-589.
16. Bacetti T. A controlled study of associated dental anomalies. *Angle Orthod* (1998) 68: 267-274.
17. Bishara SE. Impacted maxillary canines. *Am J Orthod Dentofac Orthop* (1992) 101: 159-171
18. Chaushu S, Sharabi S, Becker A. Dental morphologic characteristics of normal versus delayed developing dentitions with palataly displaced canines. *Am J Orthod Dentofacial Orthop* (2002) 121: 339-346.
19. Ericson S, Kurol J. Early treatment of palatally erupting maxillary canines by extraction of the primary canines. *Eur J Orthod* (1988) 10: 283-295
20. Jacobs SG. Localization of the unerupted maxillary canine: How to and when to. *Am J Orthod Dentofac Orthop* (1999) 115: 314-322.
21. Baume LJ. Physiological tooth migration and its significance for the development of occlusion. I. The biogenetic course of the deciduous dentition. *J Dent Res* (1950) 29: 123-132
22. Baume LJ. Physiological tooth migration and its significance for the development of occlusion. II. The biogenesis of the accessional dentition. *J Dent Res* (1950) 29: 331-337.
23. Baume LJ. Physiological tooth migration and its significance for the development of occlusion. III. The biogenesis of the successional dentition. *J Dent Res* (1950) 29: 338-348.
24. Baume LJ. Physiological tooth migration and its significance for the development of occlusion. IV. The biogenesis of overbite. *J Dent Res* (1950) 29: 440-447.
25. Bishara SE, Hoppens BJ, Jakobsen JR, Kohout FJ. Changes in the molar relationship between the deciduous and permanent dentitions: A longitudinal study. *Am J Orthod Dentofac Orthop* (1988) 93: 19-28.
26. Bishara SE, Jakobsen JR, Treder J, Nowak A. Arch length changes from 6 weeks to 45 years. *Angle Orthod* (1998) 68: 69-74.
27. Bishara SE, Jakobsen JR, et al. Arch width changes from 6 weeks to 45 years of age. *Am J Orthod Dentofac Orthop* (1997)111: 401-409.
28. Meredith HV, Hopp WN. A longitudinal study of dental arch width of the deciduous second molars in children 4-8 years of age. *J Dent Res* (1956) 35: 879-889.
29. Moorrees CFA, Chadha JM. Available space for the incisors during dental development - A growth study based on physiologic age. *Angle Orthod* (1965) 35: 12-22.
30. Moorrees CFA, Grøn AM, Lebret LML, Yen PKJ, Frölich FJ. Growth studies of the dentition: A review. *Am J Orthod* (1969) 55: 600-616.
31. Richardson ME. Late lower arch crowding in relation to skeletal and dental morphology and growth changes. *Br J Orthod* (1996)23: 249-254.
32. Sillman JH. Dimensional changes of the dental arches: longitudinal study from birth to 25 years. *Am J Orthod* (1964) 50: 824-841.
33. Andrews LF. The six keys to normal occlusion. *Am J Orthod* (1972) 62: 296-309.
34. Rebellato J, Lindauer SJ, Rubenstein LK, Isaacson RJ, Davidovitch M, Vroom K. Lower arch perimeter preservation using the lingual arch. *Am J Orthod Dentofac Orthop* (1997) 112: 449- 456.
35. Katzberg RW, Westesson PL, Tallents RH, Drake CM. Orthodontics and temporomandibular joint internal derangement. *Am J Orthod Dentofac Orthop* (1996) 109: 515-520.

PD 821, 822, 823: Advanced Seminar in Pediatric Dentistry

Course Instructor: Dr. Dina Debaybo

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 2

Prerequisites: DMD or equivalent

Co-Requisites: None

Course Description: The Advanced Seminar in Pediatric Dentistry is two year literature review course that meets on a weekly basis. Second and third year students are assigned journals/articles/chapters to abstract and present to the group. These presentations are followed by an in-depth group discussion on that particular topic in pediatric dentistry.

During the seminar series, students read and discuss the literature that is recommended prior to taking the American Board of Pediatric Dentistry Comprehensive Written and Oral Examinations. They also have mock examinations in these disciplines.
Periodically guest speakers are invited by the course director to make presentations in their areas of expertise.

The primary goal is to familiarize the pediatric dental student with the current and seminal literature related to Pediatric Dentistry.

The specific objectives are:

1. to become familiar with, then critically evaluate and determine the clinical relevance of the current and seminal literature related to Pediatric Dentistry;
2. to read the American Academy of Pediatric Dentistry recommended reading list in preparation for the American Board of Pediatric Dentistry Comprehensive Written and Oral Examinations;
3. to introduce the student to various dental and medical specialists, in order to broaden their knowledge in the management of children with specific dental or medical diagnoses.

Intended Learning Outcome:

At the completion of this course the student should:

- be familiar with the current and seminal literature relative to Pediatric Dentistry;
- be able to critically evaluate the current and seminal literature related to Pediatric Dentistry;
- be able to determine the clinical relevance of the current and seminal literature;

- have reviewed the literature recommended by the American Academy of Pediatric Dentistry;
- be aware of the role of other medical and dental specialists in the management of pediatric dental patients.

Course Topics and Content:

Alternating Year 1	Alternating Year 2
Nonpharmacologic Behavior Management (3) Local Anesthesia (1) Dental and Eruption Anomalies (2) Developmentally Disabled (5) Infant/Anticipatory Guidance (1) Pulp Therapy (2) Prevention: Nutrition, Caries, Fluoride, Seal (3) Restorative Dentistry (3) Oral Habits (2) Genetics (2) Space Management (1) Hospital Dentistry (1)	Orofacial Anomalies (2) Periodontal Disease – Oral Pathology (4) Child Abuse (1) Pharmacologic Behavior Management (6) Traumatic Injuries (4) Medically Compromised (5) Radiology (1) Therapeutic – Pharmacology (1) Practice Management (1) Speech and Language (1)

Assignments and Due Dates: Students are required to read all the required literature and abstract assigned articles for presentation and discussion.

Methods and Dates of Student Evaluations: At the end of each quarter, a written and/or oral OSCE-type examination is given that covers the literature that has been reviewed during the preceding quarter. At the end of the fourth quarter each year, a comprehensive written and/or oral examination covering the entire field of pediatric dentistry is given.

Each one of these examinations is worth 25% of the final grade. (100% for PD 822 and 100% for PD 823).

Teaching and Learning Methodologies: Lecture and instructor-guided, student-led literature review seminars

Course Text, Recommended Reading, Material, and Resources:

- Weekly assigned articles (posted on CourseInfo)
- AAPD Core Curriculum Reading List (Posted on CourseInfo)
- McDonald and Avery: Dentistry for the Child and Adolescent. 8th Ed. Mosby
- Cameron and Widmer: Handbook of Pediatric Dentistry. 2nd Ed. Mosby
- Journal of Pediatric Dentistry (Reference Manual)

PD 824: Advanced Case Presentations in Pediatric Dentistry

Course Instructor: Dr. Dina Debaybo

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 2

Prerequisites: DMD or equivalent

Co-Requisites: None

Course Description: During the third year of the program, each student is require to present 3 cases that demonstrate an advanced ability to diagnose, treat, manage and document oral health care for infants, children, adolescents and those with special health care needs. For each case, a written paper reviewing the relevant current and seminal literature must also be submitted.

In addition, students are required to submit 3 cases documenting their management of restorative, orthodontic and traumatic injury cases they have treated during the program.

The primary goal is to provide the pediatric dental student with multiple opportunities to demonstrate their advanced ability to diagnose, treat, manage and document cases that involve complex or unusual dental and/or medical features in infants, children, adolescents and those with special health care needs.

The specific objectives are:

1. To promote the student's ability to organize a presentation, communicate clinical information with visual aids, and answer questions;
2. To promote the student's ability to undertake an extensive review the current literature on the subject and write a scientific paper;
3. To provide an opportunity for students to prepare cases that demonstrate an advanced ability to diagnose and treat restorative, orthodontic and traumatic cases.

Intended Learning Outcome:

At the completion of the course, the student:

- will be able to demonstrate an advanced ability to diagnose, treat, manage and document comprehensive care for pediatric patients;
- will be able to deliver an oral presentation utilizing current audiovisual tools;
- will be able to perform an extensive review of the relevant literature and write a scientific paper on the subject of the case presentation.

Course Topics and Content: The case presentations and written assignments are chosen by the individual students and approved by the faculty. The course is held on a weekly basis and students from all three years attend.

Assignments and Due Dates: Students are required to provide comprehensive care for all the patients that are presented during this course. The three cases that are presented in the oral format also require an extensive review of the literature and submission of a written scientific paper.

Methods and Dates of Student Evaluations: The course instructor evaluates the student's oral presentations, scientific paper submissions and case submissions.

Each section of the course is equally weighted. To successfully complete the course, an average grade of C or higher must be attained.

Teaching and Learning Methodologies: Case presentation seminars

Course Text, Recommended Reading, Material, and Resources: Students will develop specific handouts and graphic material for each case presented.

PD 911, 912, 913: Clinical Pediatric Dentistry

Course Instructor: Dr. Manal Halabi

Office Hours: Sunday –Thursday 9:00 am to 4:00 pm

Credit Hours: 10 credits, 1st, 2nd, 3rd, 4th semester;
12 credits, 5th and 6th semester.

Prerequisites: DMD or equivalent

Co-Requisites: Assigned courses and seminars

Course Description: PD 911, 912, 913 is the clinical course that encompasses the scope of clinical pediatric dentistry. During the first year of the program, students are closely supervised while developing skills in diagnosis, radiographic technique, treatment planning, preventive and restorative dentistry, space management, trauma management and nonpharmacologic behavior management. During the second and third year as individual clinical skills develop, students progress to manage children with more complex special health care needs, including in-patients, operating room patients and patients undergoing conscious sedation procedures. Students gain extensive experience in the team management approach to patient care while interacting and coordinating with other medical departments within the hospitals and with outside clinics and practitioners. In addition, there is opportunity to attend hospital grand rounds and physician conferences.

Intended Learning Outcome: At the completion of this course the student will be proficient in:

1. working cooperatively with consultants and clinicians in other dental specialties and health fields
2. managing pediatric patients using non-pharmacological and pharmacological approaches consistent with approved guidelines for care
3. applying preventive practices
4. managing comprehensive restorative and prosthetic care for pediatric patients
5. managing orofacial injuries
6. diagnosing the various periodontal diseases of childhood and adolescence, and either treating or referring to the appropriate specialist
7. managing pulpal and periradicular tissues in the primary and developing permanent dentition
8. managing the oral health of patients with special health care needs
9. providing dental care to pediatric patients under general anesthesia in the operating room
10. evaluating and managing pediatric patients admitted to the hospital
11. assessing and managing orofacial trauma, dental pain and infections while on emergency services

Course Topics and Content: The primary goal is for the pediatric dental student to become proficient in the delivery of oral health care to infants, children, adolescents and those with special health care needs.

The specific objectives are to become proficient in:

1. working cooperatively with consultants and clinicians in other dental specialties and health fields
2. pediatric patient management using non-pharmacological and pharmacological approaches consistent with approved guidelines for care
3. application of preventive practices
4. management of comprehensive restorative and prosthetic care for pediatric patients
5. management of orofacial injuries
6. diagnosing the various periodontal diseases of childhood and adolescence, and either treating or referring to the appropriate specialist
7. management of pulpal and periradicular tissues in the primary and developing permanent dentition
8. management of the oral health of patients with special health care needs
9. provision of dental care to pediatric patients under general anesthesia in the operating room evaluation and medical management of pediatric patients admitted to the hospital assessment and management of orofacial trauma, dental pain and infections while on emergency services

Assignments and Due Dates: No out of class assignments.

Methods and Dates of Student Evaluations: On a daily basis, student performance in the various clinical settings is evaluated by the attending faculty through direct observation and record reviews. When indicated, a written "Critical/Noteworthy Incident Report" is completed and submitted to the Program Director for either exceptionally good or deficient performance.

At the end of each quarter, the attending faculty submits individual on-line clinical evaluations, which are then subsequently reviewed and discussed at the quarterly faculty meeting. The interim quarterly grade is an average of the grades submitted by the attending faculty members. The final grade for each year of the course is calculated by averaging the four preceding quarterly interim grades.
The Program Director meets with each student individually on a quarterly basis to discuss his or her clinical performance.

Teaching and Learning Methodologies: Mentored clinical patient care

Course Text, Recommended Reading, Material, and Resources:

- McDonald and Avery: Dentistry for the Child and Adolescent. 8th Ed. Mosby
- Cameron and Widmer: Handbook of Pediatric Dentistry. 2nd Ed. Mosby
- Journal of Pediatric Dentistry

PD 916, 917: Clinical Orthodontics

Course Instructor: Dr. Elif Keser

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 4

Prerequisites: DMD or equivalent

Co-Requisites: None

Course Description: The Clinical Orthodontic course comprises one session per week where students develop clinical orthodontic expertise through practical application of orthodontic principles developed in lectures and seminars.

Intended Learning Outcome: At the completion of the rotation, the student has achieved competency in the diagnosis of abnormalities in the developing dentition and treatment of those conditions which can be corrected or significantly improved by the early utilization of limited procedures.

Course Topics and Content: The goal of the rotation is for the student to gain competency in the diagnosis of abnormalities in the developing dentition and treatment of those conditions in which can be corrected or significantly improved by the early utilization of limited procedures.

The specific objectives are to have clinical experience in:

Objective 1: diagnosis of abnormalities of the developing dentition
Objective 2: diagnostic records and analysis
Objective 3: space maintenance
Objective 4: correction of deleterious oral habits
Objective 5: interceptive orthodontics
Objective 6: comprehensive orthodontics

Assignments and Due Dates: Students are expected to be in the clinical facility on all assigned days. If a student has no assigned patient for a specific clinic session he or she is expected to assist a classmate in patient care.

Methods and Dates of Student Evaluation: Members of the Department of Orthodontics evaluate students on technical and academic aspects of clinical orthodontics. A grade of C must be obtained to successfully complete the course.

Teaching and Learning Methodologies: Mentored clinical patient care

Course Texts, Recommended Reading, Material, and Resources:

- McDonald and Avery: Dentistry for the Child and Adolescent: 8th Edition, Mosby
- References from the course PD 808: Orthodontics for Pediatric Dentists

PD 918: Clinical Anesthesia

Course Instructor: Dr. Dina Debaybo

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 1

Prerequisites: DMD or equivalent

Co-requisites: None

Course Description: The Clinical Anesthesia rotation is a 4-5 week experience that provides the advanced specialty education student in pediatric dentistry with knowledge and experience in the management of children and adolescents undergoing general anesthesia. During the rotation, anesthesia is the principal activity of the student.

The goal of the rotation is for the student to gain an understanding of all aspects of the delivery of general anesthesia in the operating room.

The specific objectives are to gain clinical experience in:

Objective 1: pre-operative evaluation
Objective 2: risk assessment
Objective 3: assessing the effects of pharmacologic agents
Objective 4: venipuncture techniques
Objective 5: airway management
Objective 6: general anesthetic induction and intubation
Objective 7: administration of anesthetic agents
Objective 8: patient monitoring
Objective 9: prevention and management of anesthetic emergencies
Objective 10: recovery room management
Objective 11: post-operative appraisal and follow-up

Intended Learning Outcomes: At the completion of the rotation, the student has obtained an understanding of all aspects of the delivery of general anesthesia in the operating room.

Course Topics and Content: This is a clinical portion of the pediatric dentistry program. Students are assigned patients by the anesthesia department.

Assignments and Due Dates: Students are expected to be in the clinical facility on all assigned days. If a student has no assigned patient for a specific session, he or she is expected to assist a classmate or anesthesiologist in patient care. Students will participate in all anesthesia departmental seminars while on rotation.

Methods of Student Evaluation: Members of the Department of Anesthesia evaluate students on technical and academic aspects of clinical anesthesia during the clinical rotation in anesthesia. A grade of C must be obtained to successfully complete the course.

Teaching and Learning Methodologies: Clinical rotation – observation and assisting in patient care.

Course Texts, Recommended Reading, Material and Resources:

- Reading package provided by the Department of Anesthesia
- Reference library available in the Department of Anesthesia including books, audio tapes, video tapes and intubation models

PD 920: Clinical Pediatric Medicine

Course Instructor: Dr. Dina Debaybo

Office Hours: Sunday – Thursday 9:00 am to 4:00 pm

Credit Hours: 1

Prerequisites: DMD or equivalent

Co-requisites: None

Course Description: The clinical rotation in pediatric medicine is a 4-5 week rotation for the advanced education student in pediatric dentistry. During this time, pediatric medicine is the principle activity of the student.

The primary goal is to acquire knowledge and skills to function as health care providers within the hospital setting.

Intended Learning Outcomes:

The specific objectives are to have exposure to:

Objective 1: obtaining and evaluating complete medical histories
Objective 2: parental interviews
Objective 3: system orientated physical exams
Objective 4: clinical assessment of healthy and ill patients
Objective 5: selection of laboratory tests and evaluation of data
Objective 6: evaluation of physical, motor and sensory development
Objective 7: genetic implications of childhood diseases
Objective 8: the use of drug therapy in the management of diseases
Objective 9: parental management through discussions and explanation

Course Topics and Content: This is a clinical portion of the pediatric dentistry program. Students are assigned on rotation to the Department of Pediatrics The Program Coordinator is responsible for rotation assignments.

Assignments and Due Dates: Students are expected to be in the department on all assigned days.

Methods of Student Evaluation: Members of the Department of Pediatrics evaluate students on technical and academic aspects of clinical pediatric medicine during the clinical rotation in clinical pediatrics. A grade of C must be obtained to successfully complete the course.

Teaching and Learning Methodologies: Departmental seminars and mentored patient care.

Course Texts, Recommended Reading, Material and Resources:

- Required Text: Illustrated Text of Pediatrics by Tom LISSAUER and Graham CLAYDEN (Mosby 1997).

PD 922: Clinical Oral Surgery

Course Instructor: Dr. Thomas Kilgore

Office Hours: By appointment or via e-mail

Credit Hours: 1

Prerequisites: DMD or equivalent

Co-requisites: None

Course Description: The Clinical Oral Surgery rotation is a 4-5 week experience that provides the advanced specialty education student in pediatric dentistry with knowledge and experience in the assessment and management of orofacial pathology including trauma, dental pain and infection. During the rotation, oral surgery is the principal activity of the student.

The goal of the month long rotation in Clinical Oral Surgery is to offer sufficient clinical experience to enable the student to achieve competency in the assessment and management of uncomplicated orofacial pathology, trauma, dental pain and infection and to gain an understanding of the assessment and management of more complex oral surgical cases.

The specific objectives are to gain clinical experience in:

Objective 1: pre-operative evaluation
Objective 2: history and physical evaluation and risk assessment
Objective 3: simple extraction techniques
Objective 4: surgical extraction techniques
Objective 5: hard and soft tissue pathology management
Objective 6: outpatient and in-patient management
Objective 7: emergency room management
Objective 8: prevention and management of medical emergencies
Objective 9: post-operative appraisal and follow-up

Intended Learning Outcomes: At the completion of the rotation, the student is competent in the assessment and management of uncomplicated orofacial pathology, trauma, dental pain and infection and has an understanding of the assessment and management of more complex oral surgical cases.

Course Topics and Content: This is a clinical portion of the pediatric dentistry program. Students are assigned on rotation to the Oral Surgery Department. The Program Coordinator is responsible for rotation assignments.

Assignments and Due Dates: Students are expected to be in the department on all assigned days.

Methods of Student Evaluation: Members of the Department of Oral Surgery evaluate students on technical and academic aspects of clinical oral surgery. A grade of C must be obtained to successfully complete the course.

Teaching and Learning Methodologies: Departmental seminars and mentored patient care.

Course Texts, Recommended Reading, Material and Resources: Reference material available in the Department of Oral Surgery

PD 991, 992, 993: Research: Pediatric Dentistry

Course Instructor: Dr. Dina Debaybo / Dr. Manal Halabi

Office Hours: Sunday – Thursday 9:00 to 4:00 pm

Credit Hours: 6 credits, 1st, 2nd, 3rd, 4th semester;
8 credits, 5th and 6th semester.

Co-requisites: Courses as assigned by the research advisor

Course Description: Research in Pediatric Dentistry and related fields designed as a partial requirement for the MSD. Selected preceptor.

Intended Learning Outcomes:

1. Students will learn the background literature needed to understand their research project.
2. Students will learn the techniques needed to carry out the project.
3. Data from the project will be discussed and evaluated in relationship to controls and related results published from other laboratories on an ongoing basis.
4. Data from the project will be organized and interpreted with the student so that an overall thesis is generated, written and defended.

A thesis will be written by the student which provides the background information, results, data and discussion of the data before graduating.

Course Topics and Content: This course involves carrying out a research project or field project under the supervision of a research advisor. Research is generally related to the student's field of specialty education and may involve clinical research or public health research.

Assignments and Due Dates: There are no specific assignments. However it is generally expected that the student will have developed a research topic and done a literature review by the end of the first year, made substantial progress on the research by the end of the second year and have written and defended a thesis by April of the third year.

Methods and Dates of Student Evaluations: The student will meet with the research advisor on a regular basis to seek guidance and to review progress. The advisor will submit a grade annually based on student progress and comprehension of the material.

Teaching and Learning Methodologies: The accomplishment of a research project is highly individualized and methods will vary. Research seminars and periodic meetings with the research advisor will be a part of the learning process.