APPROVED

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AUG - 7 2015

COLLEGE OF GRADUATE STUDIES

The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

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Contact Person*: Pat Molnar Phone: 383-4547 (xxx - xxxx) Email: patricia.molnar@utoledo.edu

Present

Supply all information asked for in this column.(Supply core, research intensive and transfer module info if applicable)

College*: College of Medicine

Dept/Academic Unit*: Oral Biology

Course Alpha/Numeric*: DENT

- 6010

Course Title: Growth and Development

Credit hours: Fixed: 1 or Variable: to

CrossListings:

Insert

To add a course, type in course ID and click the Insert button.

To remove a course, select the course on left and click the Remove button.

Remove

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

N/A

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

N/A

Catalog Description (*only if changed*) 75 words max:

Proposed

Fill in appropriate blanks only where entry differs from first column.

College: College of Medicine

Dept/Academic Unit: Oral Biology

Course Alpha/Numeric: DENT

- 6010

Course Title: Growth and Development

Credit Hours: Fixed: 0.5 or Variable: to

CrossListings:

Insert

To add a course, type in course ID and click the Insert button.

To remove a course, select the course on left and click the Remove button.

Remove

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

N/A

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

N/A

Catalog Description (*only if changed*) 75 words max:

Has course content changed? ◉ Yes ◉ No

If course content is changed, give a brief topical outline of the revised course below(less than 200 words)

Adjustments were made so that the number of credit hours would coordinate with the amount of lecture time spent on this course, thus the modifications are being submitted as a correction for the previous error in calculation.

Proposed effective term*: 201540 (e.g. 201140 for 2011 Fall)

Attach new syllabus reflecting course modifications*

Browse...

Additional Attachment 1:

Browse...

List any course or courses to be deleted. Effective Date:

Effective Date:

Comments/Notes:

Rationale:

Graduate Program Revision was approved May 2015

Approval:

Department Curriculum Authority: Date 7.14.15

Department Chairperson:	[signature]	Date 7/14/15
College Curriculum Authority or Chair:	Kandace Williams	Date 7-29-15
College Dean:	[signature]	Date 8.7.15
Graduate Council:	Rebecca Schumm	Date 11-2-15 GC 10.20.15
Dean of Graduate Studies:	[signature]	Date 11-3-2015
Office of the Provost :		Date

Submit Course Modification

Administrative Use Only

Effective Date:	(YYYY/MM/DD)
CIP Code:	
Subsidy Taxonomy:	
Program Code:	
Instructional Level:	

Registrar's Office Use Only

Processed in Banner on:	
Processed in Banner by:	
Banner Subject Code:	
Banner Course Number:	
Banner Term Code:	
Banner Course Title:	

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Growth and Development

Presentation and discussion of key growth and development concepts related to orthodontic/orthopedic diagnosis and treatment in pediatric dentistry including: Orthodontic Records, Growth and Development of the Face and Dental Arches, Cephalometrics and Facial Esthetics, Orthodontic Diagnosis and Treatment in the Mixed Dentition, Management of the Developing Occlusion, Case Selection.

Course Director
Dr. Brent Paulus/Dr. Michael P. Nedley

Teaching/Learning Strategies
1. Lecture
2. Class discussion/participation
3. Self-study using text and current literature

Terminal Objectives
1. Describe the components of orthodontic records.
2. Describe the growth and development of the face and dental arches, and the theories of craniofacial growth.
3. Describe the importance of cephalometric and facial esthetic evaluation in the diagnosis and treatment of orthodontic/orthopedic abnormalities.
4. Assess patients in the skeletal, dental, functional and esthetic domains.
5. Describe those interceptive orthodontic cases that are appropriate for the pediatric dentist to treat.

Evaluation Strategies
Three examinations will be used to evaluate the student. Exams 1 and 2 are worth 100 points each. They will consist of approximately 40 questions. The comprehensive exam is worth 200 points. It will consist of approximately 80 questions.

Exam questions may be multiple choice, matching or short written response. Examinations will cover material in lecture and assigned reading from texts and the medical and dental literature.

Course grade evaluated as follows		Course grading Scale
Exam 1	100pts	90-100% A
Exam 2	100pts	80-89% B
Final	200pts	70-79% C
TOTAL	400pts	Below 70% Remediate

Resources

Dentistry of the Child and Adolescent (8th Ed)
Pediatric Dentistry-Infancy Through Adolescence (4th Ed)
Textbook of Orthodontics Samir E. Bishara
AAPD Reference Manual

Topical Outline

Date	Topic	Resource
Lecture 1	Overview of General Embryology and Head and Neck Development/ Principles of Cleft Lip and Palate Formation	Bishara Chapter 1 Bishara Chapter 2
Lecture 2	Summary of Human Postnatal Growth/ Introduction to the Growth of the Face	Bishara Chapter 3 Bishara Chapter 4
Lecture 3	Development of the Dental Occlusion/ Dental Arch Development	Bishara Chapter 5 Bishara Chapter 6
Lecture 4	Facial and Dental Changes in Adolescence/ Etiology and Prevalence of Malocclusion	Bishara Chapter 7 Bishara Chapter 8
	[redacted]	
Lecture 5	Orthodontic Diagnosis and Treatment Planning	Bishara Chapter 9
Lecture 6	Cephalometric Analysis	Bishara Chapter 10

Lecture 7	Tooth Size-Arch Length Analysis	Bishara Chapter 12
Lecture 8	An Approach to the Diagnosis of Different Malocclusions	Bishara Chapter 13
	[redacted]	
Lecture 9	Fixed Edgewise Orthodontic Appliances and Bonding Techniques	Bishara Chapter 14
Lecture 10	How Orthodontic Appliances Work	Bishara Chapter 15
Lecture 11	Steps in Orthodontic Treatment	Bishara Chapter 16
	[redacted]	
Lecture 12	Orthodontic Treatment in the Primary Dentition	Bishara Chapter 17
Lecture 13	Mixed Dentition Guidance of Occlusion: Serial Extraction Procedures	Bishara Chapter 18
Lecture 14	Fixed and Removable Appliances	
	[redacted]	
Lecture 15	Treatment of Class I Nonextraction Problems, Principles of Appliance Construction, and Retention Appliances	Bishara Chapter 19
Lecture 16	Treatment of Class II Malocclusions	Bishara Chapter 20
Lecture 17	Treatment of Class III Malocclusion in the Primary and Mixed Dentitions	Bishara Chapter 21
	[redacted]	