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Allied Health DIVISION
☐ NEW COURSE
☒ REVISION

Course Information Form

COURSE NUMBER:		DHY-086		TITLE: (30 Characters Max)			Pharmacology									
SEM CR HRS:		2	Lecture:		2		Lab:	0			ECH:	2				
Course Level:		<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/ Not in Degree Audit		Clinical Practicum:		0	SOE/ Internship:		0	SOE ECH:	0			
COURSE PCS #		12 - 26.1001		IAI Code						Contact Hours Per Week						
Repeatable (Y/N):		N	Pass/Fail (Y/N):		N	Variable Credit (Y/N):		N	Min:		Max:		16 Wks	100	8 wks	200
Prerequisites:		Admission into the Dental Hygiene Program														
Catalog Description: (40 Word Limit)		This course focuses on the study of drugs affecting the practice of dentistry.														

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
General Principles of Pharmacology	5			
Autonomic NS Drugs	4			
Local and General Anesthetic Drugs	2			
Pain Control Drugs	2			
Antibiotics/Antivirals/Anti-fungals	3			
Antineoplastic Drugs	0.5			
Immunosuppressant Drugs	0.5			
Bisphosphonate Drugs	0.5			
Fluorides	0.5			
Cardiovascular Drugs	3.5			
Gastrointestinal Drugs	2.5			
Respiratory Drugs	1.5			
Neurological Drugs	1.5			
Psychiatric Drugs	2			
Endocrine/Hormonal Drugs	2			
Herbal/Natural Remedies	1			
TOTAL	32	0	0	0

EVALUATION					
QUIZZES	<input checked="" type="checkbox"/>	EXAMS	<input checked="" type="checkbox"/>	ORAL PRES	<input type="checkbox"/>
LAB WORK	<input type="checkbox"/>	PROJECTS	<input type="checkbox"/>	COMP FINAL	<input type="checkbox"/>
				PAPERS	<input type="checkbox"/>
				OTHER	<input checked="" type="checkbox"/>

COURSE MATERIALS		
TITLE:	Oral Pharmacology for the Dental Hygienist	
AUTHOR:	Weinberg, M. Westphal Theile, C., Fine, J.	
PUBLISHER:	Pearson Education	
VOLUME/EDITION/URL:	2nd	
COPYRIGHT DATE:	2013	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
General Principles of Pharmacology	5	Describe the role of pharmacology in the dental hygiene process of care. List and utilize the various online and computer drug references. Discuss various federal drug laws and their impact on drug regulation. Identify the various parts of a written prescription. Discuss how to avoid errors in prescription writing. Discuss the concept of generic substitution. Describe common routes of drug administration. Compare the differences between pharmacodynamics and pharmacokinetics. Describe the various factors involved in the biological variations of drug dosing.

Autonomic Nervous System Drugs	4	Understand the differences between the sympathetic and parasympathetic divisions of the autonomic nervous system (sympathetic and parasympathetic divisions). Describe the role of autonomic nervous system drugs in dentistry. Explain the use of vasoconstrictors (in local anesthetics) in dental patients.
Local and General Anesthetic Drugs	2	Classify local anesthetics use in dentistry. Describe adverse effects of local anesthetics. List the objectives in using sedation to manage dental patients. Discuss the role of nitrous oxide in the dental office.
Pain Control Drugs	2	Discuss the commonly used pharmacological agents used for the treatment of orofacial pain. Discuss when a narcotic versus a nonnarcotic analgesic is indicated for dental patients.
Antibiotics/Antivirals/Antifungal	3	Understand the concept of bactericidal versus bacteriostatic antibiotics. Describe the adverse effects of the various antibiotics. Discuss the rationale for use of topical agents used in dentistry. List various antiherpetic drugs. Describe the appropriate dental management of patients with herpes labialis. Discuss dental implications of patients taking anti-HIV drugs. List common antifungal agents used to treat oral infections.
Antineoplastic Drugs	0.5	List various antineoplastic drugs and their implications on oral health.
Immunosuppressants	0.5	List various immunosuppressant drugs and the side effects pertaining to oral health.
Bisphosphonate Drugs	0.5	Discuss the guidelines for dental patients taking bisphosphonates. List dental risk factors for ONJ.
Fluorides	0.5	Describe the various types of fluorides used in dentistry.
Cardiovascular Drugs	3.5	Describe the different types of heart diseases. List the different categories of drugs used in the treatment of heart conditions. Discuss the adverse effects of these drugs that are important in the dental office.
Gastrointestinal Drugs	2.5	Discuss any contraindications or precautions in dental patients with gastrointestinal disorders.
Respiratory Drugs	1.5	Explain the management of asthma in relation to dental treatment. List and describe current medications used in asthma treatment. Discuss adverse effects of antihistamines, as they relate to dentistry.
Neurological Drugs	1.5	List and discuss drugs used in the treatment of Parkinson's disease. Discuss the drug management of headaches.
Psychiatric Drugs	2	Describe the major classes of psychotherapeutic medications. Discuss the adverse effects of psychotropic medications. Discuss the impact of these adverse effects during dental treatment.

Endocrine/Hormonal Drugs	2	Explain the dental management of diabetic patients. Describe important dental concerns of corticosteroids. Summarize the components of oral contraceptives and dental concerns.
Herbal/Natural Remedies	1	Describe the actions of various herbal products used in dentistry.
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COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	State the importance of pharmacology as it relates to the profession of dental hygiene and dental patients.
	Describe drug regulation and the agencies responsible for such regulation.
	Describe the entire process of how the body handles each classification of drugs, their administration, mechanism of action, and elimination from the body.
	Name various drug actions, adverse reactions, and interactions of each classification of drugs (pharmacodynamics).
	Name classes of drugs used for the most common human disease processes and how these drugs interact with drugs used in dentistry.

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.