

COURSE SYLLABUS



Education That Works For a Lifetime

Course Title:	Pharmacology	Date submitted:	March 2022 (AAC: 22-14)	
Department:	Biology, Chemistry, Allied Health			
Curriculum:	Dental Hygiene			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101) <input type="text" value="DHY*264"/> Course Type: <input type="text" value="L/D"/> A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio	Prerequisites:		
	Elective Type: <input type="text" value="G"/> AH: Art History E: English FA: Fine Arts G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences FL: Foreign Language M: Math S: Science SS: Social Science	C in Dental Hygiene II Theory (DHY*239) and C in Dental Hygiene II Clinic (DHY*240)		
	Credit Hours: <input type="text" value="3"/> Developmental: (yes/no) <input type="text" value="No"/> Lecture: <input type="text" value="3"/> Clinical: <input type="text" value="0"/> Lab: <input type="text" value="0"/> Studio: <input type="text" value="0"/> Other: <input type="text" value="0"/> TOTAL: <input type="text" value="3"/>	Corequisites:		
	Contact Hours:	None		
	Class Maximum: <input type="text" value="25"/> Semesters Offered: <input type="text" value="F/Su"/>	Other Requirements:		
		None		
	Ability Based Education (ABE) Statement			
	Catalog Course Description:	Acquaints dental hygiene students with medications used in modern dental practice. Focus is on various drugs, their modes of action, and their principle uses.		
	Topical Outline: List course content in outline format.	1. Introduction to pharmacology 2. Drug action and handling 3. Drug interaction 4. Adverse reactions 5. Autonomic drugs 6. Nonopioid analgesics 7. Opioid analgesics 8. Anti-infective agents		

	<ol style="list-style-type: none"> 9. Antimicrobial agents 10. Anti-anxiety agents 11. Psychotherapeutic agents 12. Anticonvulsive agents 13. General anesthesia 14. Cardiovascular drugs 15. Adrenocorticosteroids 16. Antacids/Antihistamines 17. Respiratory drugs 18. Gastrointestinal drugs 19. Emergency drugs 20. Oral condition 21. Hormones 22. Anti-neoplastic drugs 23. Vitamins and minerals 24. Drug abuse
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <ol style="list-style-type: none"> 1. discuss the basic principles of pharmacodynamics and pharmacokinetics 2. describe the drug schedule including abuse potential, handling and examples of drugs in each schedule 3. explain the mechanism of drug interaction and the categories of adverse drug reactions 4. explain the mechanisms of action, pharmacologic effect, adverse reactions, drug interactions, uses, precautions, and contraindication for each drug group; opioids, nonopioids, gastrointestinal drugs, cardiovascular drugs, adrenocorticosteroids, autacoids, antihistamines, anti-infectives, antimicrobials, anti-anxiety, psychotherapeutic, cholinergic, anti-cholinergic, adrenergic, adrenergic blocking, anticonvulsant, anti-neoplastic, and respiratory drugs 5. explain the pharmacologic and pharmacokinetic effects of general anesthetics 6. define the following terms: psychological and physical dependence, tolerance, withdrawal syndrome, and addiction 7. describe the withdrawal symptoms and withdrawal treatment from opioid analgesic agents 8. describe the dental clinician's role in prevention and treatment of an opioid overdose 9. discuss for each vitamin and mineral the major sources, function, recommended daily allowance, deficiency state, toxicity, and clinical considerations 10. discuss female and male sex hormones, pancreatic hormones, pituitary, and thyroid hormones 11. describe the drugs utilized in the treatment of necrotizing gingivitis, herpes labials, aphthous stomatitis, oral candidiasis, xerostomia 12. list and describe the signs, symptoms, and drug/general treatment of each of the following emergency situations: syncope, angina pectoris, asthma, acute myocardial infarction, anaphylactic shock, convulsions, hypo and hyperglycemia, apnea, cardiac arrest 13. Identify drug contents of dental emergency kits <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p><u>DENTAL HYGIENE A.S. Degree</u></p>

<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria: Quizzes Homework Exams</p>
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: course management system Desired: None</p>
<p>Textbook(s)</p>	<p>Haveles, Elena, <u>Applied Pharmacology for the Dental Hygienist</u>, Latest edition</p>