

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	DEH 2300
COURSE TITLE:	Pharmacology and Oral Medicine
PREREQUISITE(S):	CHM 1032C and Acceptance to the Dental Hygiene Program
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	24
CATALOG COURSE DESCRIPTION:	
	<i>A study of general pharmacology including drug classification, uses, actions, interactions, side effects, contraindications and systemic and oral manifestations. Emphasis is placed on drugs commonly used in dentistry and those which modify dental care procedures.</i>
SUGGESTED TEXT(S):	Requa-Clark, <u>Applied Pharmacology for the Dental Hygienist</u> , Mosby, Latest Edition
IMPLEMENTATION DATE:	Fall Term, 1974 (751) (was DEH 00288) Fall Term, 2004 (20051) TEMP #DEH 1932
REVIEW OR MODIFICATION DATE:	Fall Term, 2002 (20031) Fall Term, 2005 (20061) Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. General Principle	2
A. Course Introduction	
B. Terminology	
C. Information Sources and Regulatory Agencies	
II. Drug Action and Handling	4
A. Characterization of Drug Action	
B. Log Dose Effect Curve	
C. Potency	
D. Efficacy	
E. Chemical Signaling Between Cells	
F. Mechanism of Drug Action	
G. Routes of Administration and Dosage	
H. Pharmacokinetics	
I. Factors that alter Drug Effects	
III. Adverse Drug Reactions and Drug Interactions	4
A. Definitions and Classification	
B. Clinical Manifestations	
C. Reactions	
D. Toxicologic Evaluation of Drugs	
IV. Prescription Writing	2
A. Measurement	
B. Metric System	
C. Prescription Format	
D. Drug Legislation	
E. Scheduled Drugs	
V. Drugs Used in Dentistry	15
A. Autonomic Drugs	(3)
B.. Narcotic Analgics and Narcotic Analgesics	(2)
C. Anti-infective and Antifungal Agents	(3)
D. Local Anesthetics	(3)
E. Anti-anxiety Agents	(1)
F. General Anesthetics	(1)
G. Oral Conditions and Their Treatment	(2)

COURSE TOPICS (CONTINUED)	<u>CONTACT HOURS PER TOPIC</u>
VI. Drugs that may Alter Dental Treatment	11
A. Cardiovascular Drugs	(3)
B. Anticonvulsants and Psychotherapeutic Agents	(1)
C. Autocoids and Antihistamines	(2)
D. Adrenocorticosteroids and other Hormones	(2)
E. Antineoplastic Drugs	(1)
F. Respiratory and Gastrointestinal Drugs	(2)
VII. Special Situations	2
A. Pregnancy and Breast Feeding	
B. Drug Abuse	
VIII. Review/Case studies	2
IX. Exams and quizzes	3
Total Contact Hours	45

PROGRAM TITLE: Dental Hygiene
 COURSE TITLE: Pharmacology and Oral Medicine
 CIP NUMBER: 0317.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

01.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS - The student will be able to:

- 01.01 Identify the basic components of the health care delivery system.
- 01.03 Describe the composition and function of a health care team.
- 01.04 Identify the general roles and responsibilities of the individual members of the health care team.
- 01.05 Develop a basic understanding of human needs throughout the lifespan.
- 01.06 Explain the importance of maintaining professional competence through continuing education.
- 01.07 Describe trends affecting the delivery system of health care.

02.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY - The student will be able to:

- 02.01 Develop basic listening skills.
- 02.02 Develop basic observational skills related and related documentation strategies in written and oral form.
- 02.05 Compose written communication using correct spelling, grammar and format.
- 02.06 Use appropriate medical terminology and abbreviations.
- 02.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships.
- 02.08 Recognize the importance of patient/client education regarding health care.
- 02.09 Adapt communication skills to varied levels of understanding and cultural orientation.
- 02.12 Distinguish between factual reports and personal opinion.

03.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITY - The student will be able to:

- 03.01 Discuss the legal framework of the health care occupation.
- 03.02 Explain the medical liability of health care workers.
- 03.05 Discuss the importance of maintaining confidentiality.
- 03.06 Recognize the limits of authority and responsibility of health care workers.

04.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS - The student will be able to:

- 04.01 Develop a basic understanding of the structure and function of the body systems.
- 04.02 Identify personal health practices and environmental factors which affect optimal function of each of the body systems.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

- 05.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES - The student will be able to:
- 05.01 Demonstrate the safe use of the medical equipment
 - 05.02 Recognize and report safety hazards.
- 06.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS - The student will be able to:
- 06.05 Recognize adverse drug related emergencies and take appropriate first aid action.
- 11.0 APPLY BASIC MATH AND SCIENCE SKILLS - The student will be able to:
- 11.01 Draw read and report on graphs, charts, and tables.
 - 11.02 Measure temperature, distance, capacity and mass/weight.
 - 11.03 Make and use instruments in both traditional and metric units
 - 11.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions.
 - 11.09 Calculate ratios.
- 23.0 IDENTIFY AND EXPLAIN FUNCTIONS OF DENTAL ANATOMICAL LANDMARKS AND DESCRIBE PATHOLOGICAL CONDITIONS OF THE TEETH, SOFT TISSUES AND SUPPORTING STRUCTURES OF THE ORAL CAVITY - The student will be able to:
- 23.04 Identify anatomical structures and physiological function of the principle systems of the human body including the skeletal, muscular, integumentary, circulatory, lymphatic, endocrine, digestive, reproductive, respiratory, urinary, and nervous systems.
- 24.0 IDENTIFY AND EXPLAIN PRINCIPLES OF MICROBIOLOGY, DISEASE TRANSMISSION, DISEASE PREVENTION, AND PERFORM DENTAL CARE - The student will be able to:
- 24.04 Identify the role of prokaryotic cells, eukaryotic cells, viruses, and bacteria in the infections and in the mechanisms of diseases.
- 25.0 IDENTIFY AND EXPLAIN USAGE, ADMINISTRATION, INDICATIONS, CONTRINDICATIONS, ADVERSE REACTIONS AND PRECAUTIONS OF PHARMACEUTICAL AND ANESTHETIC AGENTS USED IN THE TREATMENT OF DENTAL DISEASE AND OF THOSE AGENTS WHICH MAY INFLUENCE CARE WHILE RECEIVING DENTAL TREATMENT - The student will be able to:
- 25.01 Recognize specific conditions in the oral cavity and modify treatment when indicated.
 - 25.02 Describe methods of administering local anesthesia.
 - 25.03 Identify the tissues innervated by each of the nerves associated with dental anesthesia
 - 25.04 Describe properties and mode of action of the ideal local anesthetic.
 - 25.05 List medical considerations in choosing a local anesthetic.
 - 25.06 Describe the process of drug metabolism.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

27.0 PERFORM PATIENT PREASSESSMENT - The student will be able to:

- 27.01 Take record and correlate medical/dental history.
- 27.11 Recognize systemic disease from oral manifestations.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1	
COURSE PREFIX AND NUMBER: <u>DEH 2300</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Pharmacology and Oral Medicine</u>	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input checked="" type="checkbox"/> AAS Required Professional Course	<input type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communication	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4

INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input type="checkbox"/> Quantitative Skills	<input checked="" type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

Section 5	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Upon successful completion of this course, students will be able to discuss the adverse effects of the use of alcohol, illegal drugs and steroids on the human body.	Written examination
•	Upon successful completion of this course, students will be able to identify drug requirements, agencies, and regulations.	Written examination
•	Upon successful completion of this course, students will be able to identify drug actions, side effects, indications and contraindications; verify with Physician's Desk Reference or its equivalent.	Written examination
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Section 6

Name of Person Completing This Form: Jeff Smith Date: 4/29/2008