

## **DHYG 229 - PHARMACOLOGY 3 CREDITS**

### **SYLLABUS**

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#### **CATALOG DESCRIPTION**

A study of the importance of the pharmacologic aspects of those drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects upon the body systems.

Prerequisites: DHYG 221, 225 Corequisites: DHYG 233, 234, 235, 237

Semester Offered: Fall

#### ***COMMON STUDENT LEARNING OUTCOMES***

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

##### **BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

##### **CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

##### **CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

##### **EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

##### **INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

##### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

## COURSE LEARNING OUTCOMES

*Upon successful completion of the course, the student will be able to...*

1. Identify the uses, actions, and contraindications of drugs commonly taken by patients as evidenced by a 75% or higher accuracy on learning assessments.
2. Describe the prevention of drug interactions, medical emergency interventions, oral manifestations associated with drug use, and implications of alcohol and drug abuse.
3. Incorporate their knowledge of oral side effects from medication used in the management of the patient's dental health.
4. Demonstrate pharmacological terminology, list sources of drug information, and identify regulating agencies and rules related to pharmacology and prescription writing.
5. Describe general principles of pharmacology to include basic mechanisms—physiological and biochemical—through which different drug forms exert their actions.
6. Identify factors involved in the absorption, disposition, metabolism and excretion of drugs.
7. Discuss the therapeutic applications of drugs, including methods of administration, the effects of drugs altered by variables and drug interactions that alter drug effects clinically.
8. Identify actions of drugs which could alter dental treatment, discuss the systemic diseases which require their use, either directly or indirectly and possible oral manifestations associated with drug use.
9. Explain adverse reactions, general methods of toxicity prevention, and medical emergencies that may occur in dental practice.
10. Describe the implications of alcohol and drug abuse to dental practice.
11. Apply the general principles of pharmacology to the use of various drugs used in dentistry.