SURGICAL TECHNOLOGY PROGRAM

COURSE SYLLABUS

PHARMACOLOGY

Fall 2003

1. Course Number:

2. Course Title: Surgical Pharmacology

3. This course is designed to provide the student with learning opportunities which will enable him/her to apply scientific principles of the biologic science to pharmacology. Emphasis is placed on the relationship of drugs to the surgical patient.

4. A Course Requirement for: Surgical Technology Program.

5. Primary Purpose: To provide the student with the rationale for the use of specific drugs and their effects and major side effects on the surgical patient, how they may alter or influence surgical intervention and personal actions when dealing with pharmaceuticals.

6. Requirement for: Certificate of Proficiency

7. Course Prerequisites: Admission to (name of school) and admission to the Surgical Technology Program.

8. Relationship of Course to District Objectives: To maintain an effective program, which will provide the student with resources to develop skills necessary to achieve their educational goals and to offer a certificate that provides the student with a marketable career in the health care field at the completion of their study.

9. Course Co requisites:

10. Projected Enrollment: 18 Fall Semester

11. This course will meet on Tuesday and Thursday mornings from 8:00-9:00 A.m.

12. Anticipated frequency of course offering: Fall semester only

Learning Objectives

Upon completion of this course the student will be able to:

1. Correctly convert from one mathematical system to another.
2. List the different systems of measurement used in medication.
3. Identify symbols and abbreviations used in drug therapy
4. List the sources of drugs.
5. List the routes of drug administration.
6. State individual and community (local, state, federal) responsibilities of implementation of drug control and drug abuse prevention.
7. List specific rights of patient's in regard to drug administration and his/her role in protecting these rights.
8. Define and identify common "side effects" of drugs and describe appropriate intervention when desired effects are not achieved.
9. Differentiate between a drug's trade name and generic name.
10. List the purposes of drug therapy.
11. Identify the variables influencing drug action and dosage.
12. Identify and describe actions of coagulant and anticoagulant drugs on the surgical patient.

Course Outline:

August 19	Introduction Chapter 1-Mathematics review
August 21	Chapter 1-Mathematics review
August 26	Chapter 1-Mathematics review
August 28	Chapter 1 **exam**-mathematics Chapter 2-Basic pharmacology
September 2	Chapter 2-Basic pharmacology

September 4	Chapter 2 **exam**-Basic pharmacology Chapter 3 and 4-Drug regulation and Drug administration
September 9	Chapter 3 and 4 **exam**, Drug regulation and administration Review for unit exam
September 11	Unit 1 **exam**-Introduction Chapter 7-Diuretics
September 16	Chapter 7-Diuretics
September 18	Chapter 7 **exam**-Diuretics Chapter 6-Diagnostics
September 23	Chapter 6 **exam**, diagnostics Chapter 9- Hormones
September 25	Chapter 9- Hormones
September 30	Chapter 9 **exam**-Hormones Chapter 10-Drugs affecting coagulation
October 2	Chapter 10-Drugs affecting coagulation
October 7	Chapter 10-Drugs affecting coagulation
October 9	Chapter 10 **exam**-Drugs affecting coagulation Chapter 8-Gastric drugs
October 14	Chapter 8 **exam**-gastric drugs Review
October 16	Chapter 11-Ophthalmic drugs
October 21	Chapter 11-Ophthalmic drugs
October 23	Chapter 11 **exam**-ophthalmic drugs Chapter 5-Antibiotics
October 28	Chapter 5-Antibiotics
October 30	Chapter 5 **exam**-Antibiotics Cardiac drugs
November 4	Cardiac drugs

November 6	Cardiac drugs
November 11	Chapter **exam**-Cardiac drugs Review
November 13	Review for unit exam
November 18	Unit 2 **exam**-Application
November 25	Chapter 12-Preoperative drugs
November 27	Thanksgiving holiday-no school
December 2	Chapter 13 Intraoperative drugs Possible guest speaker from anesthesia
December 4	Chapter 13-**exam**-Intraoperative drugs Chapter 14- Blood, fluids and complications
December 9	Chapter 15-Complications Review for final
December 12	Review for final
December 16	**Final exam**

The above schedule may change to accommodate student learning needs

Classroom handouts with specific objectives, readings and other assignments may accompany each lesson.

Teaching Methods

1. Lecture
2. Discussion
3. Textbooks
4. Handouts
5. Group projects
6. Audio-visual
7. Computer programs

Rubric

Task	Total Points Possible	
Chapter exams (100pts each)	1300	
Unit exams (200 pts each)	400	A= 93-100%
Final exam	400	B= 83-92 %
Participation	aprx. 100	C= 75-82%
Homework	aprx. 400	D=65-74%
Research paper	100	F= below 65%
Total	aprx. 2700	

Exams

Chapter exams will be for material in that chapter. Unit exams will cover the material in that unit. The final will be comprehensive from the beginning of the semester.

Make –up exams **Must** be taken within three (3) days of the date you return to school or zero points will be awarded.

Test results will be returned to the student within one week from the day the test is given. Review of test will be given during class time or on an individual basis.

Attendance

Students are expected to follow the policies set forth in the Surgical Technology Handbook. Students can receive one bonus point each day if they are in attendance for the entire class.

Participation

Active participation through group projects and daily discussion will be utilized. The amount of points awarded will vary with each given task.

Homework

All homework should be turned in on time (at the beginning of class). Points will be deducted for each day that it is late.

1 day late= 5% deduction
2 day late= 8% deduction
3 days late=10% deduction
4 or more days late=50% deduction

Research paper

See attached rubric

Text, Reference, Supplementary Materials

Required: Snyder, K. & Keegan, C. (1999). Pharmacology for the surgical technologist. Philadelphia: W. B. Saunders.

Drug handbook for health professionals. (2nd ed.). Philadelphia: Saunders.

Price, P. (Ed.). (2004). Surgical technology for the surgical technologist: A positive care approach (2nd ed.). Albany, NY: Delmar Thompson Learning

Phillips, N. F. (2004). Berry & Kohn's 0perating room technique (10th ed.). Philadelphia: Mosby

Additional reference materials are available in the school library.

Office Hours-instructor:

(name of instructor and contact information)

Rubric for Pharmacology Research Paper

Task	Points possible	your points
Topic approved by instructor Should be related to: Alchemy History Specific drugs Native American remedies Folk medicines	5	
Proper grammar (1 pt. Deduction for each mistake)	15	
Proper medical terminology (1 pt. Deduction for each mistake)	15	
Use of at least 3 primary resources	15	
Reference list in A.P.A. style	15	
Informative	20	
Proper length of paper Typed, 12-font, double spaced, 3-4 pages	15	
	Total 100	

Timeline:

November 13	Deadline to approve topic with instructor.
December 4	Final paper due.