SUR250 Pharmacology Syllabus

Course Information
Credits 2
Campus Washburn Institute of Technology
Address 5724 SW Huntoon
City/State/Zip Topeka, Kansas 66604
Office Fax 785-273-7080

Description
The course begins with basic math review and moves on to weights and measurements using the metric system and its application in the medical field. Medications used in the operating room during surgery both for the surgeon and the anesthesia provider will be discussed. Pre-operative and post-operative medications for anxiety, pain, emergencies, and other operating room (OR) related health issues will be discussed. Anesthetic agents used including IV, inhalation, regional, and local will be presented. Medication safety is included throughout.

Textbooks

Student Learning Outcomes:
A. Communicate effectively
B. Integrate technology
C. Learn effectively
D. Demonstrate cooperative teamwork skills
E. Apply safety in the workplace
F. Think critically and creatively
G. Demonstrate responsible work ethics

Competencies
1. Convert fractions and percentages to decimals.
2. Solve medical problems using ratios and proportions and convert Fahrenheit and Celsius temperatures.
3. Describe how the metric system is used in the medical world.
4. Define pharmacologic terminology for handling medications.
5. Describe homeostatic parameters monitored in the OR setting.
6. Match medications used in surgery with their correct definitions and usage.
7. Understand the principles of hemostasis and the medications used to assist this.
8. Describe the safe care and handling of medications and solutions used in surgery.
9. Demonstrate proper medication measurement and labeling in the Simulation Lab (RSC).
10. Describe the different types of anesthesia.
11. List common pre-operative medications used before surgery.
12. Understand the reasons for the choices of anesthesia administration.
13. Describe the methods of anesthesia administration.
14. List the various anesthetic agents used for local, regional, and general anesthesia.
15. Discuss the phases and stages of general anesthesia.
16. List common medications used for induction of anesthesia.
17. Understand why adjunct medications are used for anesthesia.
18. Identify potential complications and emergencies in anesthesia.
19. List the names and understand the purposes of anesthesia equipment and monitoring devices.
20. Understand the roles of the anesthesia person, RN, and surgical tech during anesthesia administration.

Guidelines for Success

Assessment Plan
Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution’s technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

Grading Rationale and Grading Scale
Grades will be issued at the completion of each 9 weeks. The following is the grading scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>94% - 100%</td>
<td>Excellent work</td>
</tr>
<tr>
<td>B</td>
<td>87% - 93%</td>
<td>Above average work</td>
</tr>
<tr>
<td>C</td>
<td>80% - 86%</td>
<td>Minimum acceptable level, average</td>
</tr>
<tr>
<td>D</td>
<td>75% - 79%</td>
<td>Below average and unacceptable to continue in class</td>
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<tr>
<td>F</td>
<td>74.5% or below</td>
<td>Fail</td>
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Daily Grades
Ten points daily will be given for class participation.

Unit tests and Pop quizzes will be given. Test material may come from any of your books on that particular subject or from lecture and videos.

Attendance
If a student is absent 5 hours or more zero points will be awarded for that day. If a student is absent 3 hours a day a minimum of 5 points can be earned. If a student is tardy more than 5 minutes he/she will lose 2 points. You will be given 2 "free tardies" that will not count against your attendance.

Disability
The Americans with Disabilities Act (ADA) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with
disabilities. Qualified students with disabilities MUST self-identify by completing an application. In addition students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date the accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations.

The ADA Office coordinates and assists in arranging accommodations it deems appropriate for eligible students on a case-by-case basis. If you are a student with a disability that may substantially limit your ability to participate in any of our classes and you believe that you will need accommodations, it is your responsibility to contact: ADA Coordinator, 785.670.3365 or gloria.christian@washburn.edu.

Washburn University prohibits discrimination on the basis of race, color, religion, age, national origin, ancestry, disability, sex, sexual orientation, gender identity, genetic information, veteran status, or marital or parental status. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pamela Foster, Equal Opportunity Director/Title IX Coordinator, Washburn University, 1700 SW College Ave, Topeka, Kansas 66621, 785.670.1509, eodirector@washburn.edu.