

# COURSE OUTCOME MATRIX

## COURSE SYLLABUS

### PART 2 of 3

Course Number and Title	SG 210: Anesthetics, Drugs, and Solutions
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Credit Hours	2
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Course Description	This course is designed to introduce students to various types of anesthetic agents used in surgical and related procedures. The use, effects, and adverse reactions of drugs will be discussed. Calculation of drugs and solutions using the metric system, and the pouring and measuring of solutions will be taught so the student can effectively assist the surgeon, anesthesiologist, nurse anesthetist or circulating nurse in the operating room.
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Prerequisite(s) and/or Corequisite(s)	Co- SG 220 with a grade of "C" or better
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**Required Textbooks/References/Course Materials:**

Pharmacology for Surgical Technologist - with Access	5th	Howe, Tiffany / Burton, Angela	Elsevier Science	0323661211
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	<b>General Education Outcomes</b>
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	<b>Program Outcomes</b>
1	Students will communicate effectively and demonstrate behavior that corresponds to ethical and legal standard of the profession, uphold patient care standards, and adhere to the moral and honesty integrity of the scope of practice.
2	Students will demonstrate the principles of aseptic technique at all times and maintain a surgical conscience in a knowledgeable manner that provides optimal patient care.
3	Students will identify the use and actions of medications and label all medications used in the sterile field.
4	Students will identify and label surgical instruments, supplies and equipment used during a specific surgical procedure.
5	Students will implement the knowledge of medical terminology, anatomy and physiology and surgical procedural steps, to anticipate the needs of the surgical team.

	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	The student will be able to distinguish common pharmacological terms, define the sources of some commonly used drugs, drug classifications and categories, the procedure for medication orders, drug distribution systems, drug forms and preparations, drug administration routes, and pharmacokinetics and pharmacodynamics.	C-Understanding-2	3	0	0	2	2	0	0
2	The student will be able to identify the major federal classification schedules regulating drugs; the role of JCAHO in accrediting health care organizations and programs and its standards for abbreviations and symbols; the phases of human medication testing; how to read and interpret a medication label; and describe the major medication reference guides.	C-Analyzing-4	3	0	0	1	2	0	0
3	The student will comprehend the role of mathematics in pharmacology such as converting standard time to military time and how to solve simple problems, perform fundamental calculations, and make important conversions.	C-Understanding-2	3	0	0	2	2	1	0
4	The student will be able to identify the surgical technologist's roles in medication administration, the "six rights" of medication administration, proper medication identification and delivery to the sterile field, and advanced medication administration practices for the surgical technologist.	C-Appling-3	4	0	0	2	2	0	0
5	The student will be able to identify the procedures and devices involved in patient monitoring before, during	C-Appling-3	3	0	0	2	2	0	0

	and after surgery, the different types of anesthesia and their effects, and agents used for local, regional, and general anesthesia.								
6	The student will be able to classify the components of general anesthesia, administration methods, phases, the maintenance phase, agents used, major categories of anesthesia medications, inhalation agents, neuromuscular blocking agents and reversal agents.	C-Understanding-2	3	0	0	2	2	0	0
7	The student will be able to identify some major anesthesia-related emergency situations, adverse reactions, how they are treated, and which drugs are used to treat emergency.	C-Evaluating-5	3	0	0	2	2	0	0
8.	The student will be able to distinguish general terms used in referring to antimicrobial agents and procedures, how antimicrobials are classified and how they work, how antibiotic resistance occurs, and categories of antibiotics commonly used in surgical procedures.	C-Understanding-2	3	0	0	2	2	0	0

Bloom's Domain Legend

C = Cognitive  
A = Affective  
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable  
1 = Introduced and/or Minimally Addressed and Not Measurable  
0 = Not included

Approved: May 2021  
Reviewed: October 29, 2021