

BERGEN COMMUNITY COLLEGE
DIVISION OF HEALTH PROFESSIONS
SURGICAL TECHNOLOGY PROGRAM

SUR 201 COURSE SYLLABUSES

CREDITS: 6

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TERM: SPRING 2015

*** COURSE DESCRIPTION:**

THIS COURSE PROVIDES THE NECESSARY FOUNDATION FOR THE SURGICAL TECHNOLOGIST'S PERFORMANCE AS A MEMBER OF THE SURGICAL TEAM. IT IS THE STUDY OF THE ROLE OF THE SURGICAL TECHNOLOGIST'S. IT WILL FOCUS ON SURGICAL PRINCIPLES, TECHNIQUES, AND SURGICAL PROCEDURES.

*** TEACHING METHODS:**

- **LECTURES**
- **DISCUSSIONS**
- **LECTURE PRESENTATIONS AND DEMONSTRATIONS**
- **AUDIOVISUAL MATERIAL**
- **READING ASSIGNMENTS**
- **HOMEWORK ASSIGNMENTS**

*** REQUIRED TEXTBOOKS:**

- **SURGICAL TECHNOLOGY FOR THE SURGICAL TECHNOLOGIST 4TH EDITION**
- **COURSE OUTLINE WITH READING ASSIGNMENTS AND HAND-OUTS FOR THE STUDENTS TO REFER TO IN PREPARATION OF THE LECTURE.**
- **SURGICAL TECHNOLOGY EXAMINATION, Q AND A LANG, C SHERMAN / M CHMIELEWSKI**
- **OTHER BOOKS AND VIDEOS ARE AVAILABLE IN THE CLASSROOM AND LIBRARY FOR STUDENT USE.**

*** GROUP PROJECTS;**

- **THE STUDENTS WILL WORK TOGETHER IN SMALL GROUPS CHOOSING A TOPIC RELATED TO THE FIELD OF SURGICAL TECHNOLOGY AND WILL DECORATE THE BULLETIN BOARDS WITH EYE CATCHING INFORMATIVE INFORMATION.**

- * **CLINICAL EXAMINATIONS:**
 - **THERE WILL BE A WRITTEN EXAM FOLLOWING LECTURE CHAPTERS.**
 - **WORKBOOK ASSIGNMENTS (HANDOUTS) PRECEDING EACH LECTURE CHAPTER.**

- * **ATTENDANCE POLICY FOR LECTURE (SUR-101)**
- * **ATTENDANCE POLICY FOR LECTURE (SUR-101) / ATTENDANCE POLICY FOR CLINICAL LAB AND CLINICAL HOSPITAL SITE (SUR-102) (SPRING SEMESTER 2015/ EXTERNSHIP 2015)**
- * **THE STUDENT WILL NOTIFY HIS OR HER DIRECTOR AND CLINICAL INSTRUCTOR IF ABSENT FROM LECTURE, LAB, OR CLINICAL.**
- * **NO STUDENT IS TO BE AT A CLINICAL SITE WITHOUT AN ADJUNCT INSTRUCTOR FROM BERGEN COMMUNITY COLLEGE PRESENT.**

- * **LECTURE TARDINESS:**
 - **1ST LATE = VERBAL WARNING**
 - **2ND LATE = VERBAL WARNING**
 - **3RD LATE = WRITTEN WARNING**
 - **4TH LATE = DISMISSAL FROM THE PROGRAM**

- * **CLINICAL TARDINESS:**
 - **1ST LATE= VERBAL WARNING**
 - **2ND LATE= VERBAL WARNING**
 - **3RD LATE= WRITTEN WARNING AND ONE DAY SUSPENSION**
 - **4TH LATE = DISMISSAL FROM THE PROGRAM**

- * **LECTURE AND CLINICAL ABSENTEEISM:**
 - **1ST ABSENCE= VERBAL WARNING**
 - **2ND ABSENCE= VERBAL WARNING**
 - **ANYTHING AFTER THE 2ND ABSENCE A DR.'S NOTE WILL BE REQUIRED**
 - **4TH ABSENCE= DISMISSAL FROM THE PROGRAM.**

- * **DRESS CODE FOR LECTURE:**
 - **THE STUDENT MAY WEAR THEIR STREET CLOTHES; HOWEVER THEY STILL NEED TO BE DRESSED APPROPRIATELY: YOU THE STUDENT REPRESENTS YOUR PROFESSION, THE PROGRAM, AND BERGEN COMMUNITY COLLEGE.**
 - **CLEAN CLOTHES**
 - **NO SWEATS**
 - **NO TANK TOPS**
 - **NO HATS**
 - **NO RIPPED JEANS**

- * **SUPPLIES REQUIRED FOR LECTURE:**

- **TEXTBOOKS:**
 - **OPERATING ROOM TECHNIQUE, BERRY & KOHN'S, 12TH EDITION,), (NANCY MARIE PHILLIPS) ISBN# 978-0-323-07358-5**
 - **CARE OF THE PATIENT IN SURGERY, ALEXANDER'S, 14TH EDITION, (JANE C. ROTHROCK) ISBN#978-0323-06916-8**
- **NOTEBOOK**
- **PEN, PENCIL**
- **COMPUTER/LAPTOP (AS PER THE STUDENTS DISCRETION)**
- **AUDIO TAPING IS PERMISSIBLE, PLEASE JUST NOTIFY THE INSTRUCTOR.**

*** LECTURE EXAMINATIONS:**

- **A WRITTEN EXAM WILL FOLLOW LECTURES. MULTIPLE CHAPTERS WILL COLLECTIVELY BE GIVEN TOGETHER ON AN EXAM.**

*** GRADING SYSTEM:**

- **92-100% A**
- **89-91% B+**
- **83-88% B**
- **80-82% C+**
- **75-79% C**
- **BELOW A 75% F**

*** GRADE DETERMINATION FOR LECTURE (SUR-101) 2014**

- **LECTURE EXAMS 50%**
- **QUIZZES 10%**
- **HOMEWORK ASSIGNMENTS 10%**
- **FINAL EXAM 30%**

EXAMS AND QUIZZES CANNOT BE MADE UP YOU WILL RECEIVE A ZERO.

IF HOMEWORK ASSIGNMENTS ARE HANDED IN LATE 5 POINTS WILL BE DEDUCTED FOR EVERY DAY THEY ARE LATE.

*** OBJECTIVES:**

- **CHAPTER16 (B&K)**
- 1. IDENTIFY THE COMPONENTS OF APPROPRIATE OR ATTIRE WORN IN THE SPECIFIC AREAS OF THE SURGICAL SUITE.**
 - 2. IDENTIFY THE COMPONENTS OF PPE DONNED BEFORE PERFORMING SURGICAL HAND SCRUB.**
 - 3. IDENTIFY THE PERIMETERS OF THE SURGICAL GOWN.**
 - 4. DEMONSTRATE THE CORRECT METHOD OF GOWNING AND GLOVING BEFORE ESTABLISHING THE STERILE FIELD.**
 - 5. DEMONSTRATE THE APPROPRIATE METHOD OF CHANGING A CONTAMINATED GLOVE DURING A SURGICAL PROCEDURE.**

6. DEMONSTRATE THE PROPER METHOD FOR REMOVING A CONTAMINATED GOWN AND GLOVES.

- **CHAPTER 12 (B&K)**

1. **DESCRIBE HOW A ROOM IS PREPARED FOR THE FIRST CASE OF THE DAY.**
2. **DESCRIBE HOW A ROOM IS CLEANED AND PREPARED BETWEEN CASES.**
3. **DESCRIBE HOW A ROOM IS TERMINALLY CLEANED AT THE END OF THE DAY.**
4. **DISCUSS ENVIRONMENTAL RESPONSIBILITY.**

- **CHAPTER 15 (B&K)**

1. **DEFINE ASEPTIC TECHNIQUE.**
2. **DEFINE STERILE TECHNIQUE.**
3. **DESCRIBE THE TRANSMISSION OF MICROORGANISMS.**
4. **LIST SEVERAL PRINCIPLES OF STANDARD PRECAUTIONS.**
5. **DISCUSS THE OBLIGATION OF THE TEAM TO PRACTICE ASEPTIC AND STERILE TECHNIQUE.**

LECTURE MATERIAL EXAM 1	EXAMINATION /READING AND HOMEWORK ASSIGNMENT
<p>CHAPTER 16:</p> <ul style="list-style-type: none"> ◦ APPROPRIATE ATTIRE, SURGICAL HAND HYGIENE, AND GOWNING AND GLOVING <p>CHAPTER 12:</p> <ul style="list-style-type: none"> ◦ CARE OF THE PERIOPERATIVE ENVIRONMENT <p>CHAPTER 15:</p> <ul style="list-style-type: none"> ◦ PRINCIPLES OF ASEPTIC AND STERILE TECHNIQUE 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- (B&K PG 267-284) ◦ HOMEWORK ASSIGNMENT- HANDOUT- " ASEPTIC TECHNIQUE" ◦ READING ASSIGNMENT - B&K (PG 208-213) ◦ HOMEWORK ASSIGNMENT- KEY TERMS AND DEFINITIONS (PG 208 ◦ READING ASSIGNMENT- B&K (PG 252-266) ◦ HOMEWORK ASSIGNMENT- KEY TERMS AND DEFINITIONS (PG 252

*** OBJECTIVES**

- **CHAPTER 10 (B&K)**

1. **IDENTIFY SPECIFIC AREAS WITHIN THE OR.**
2. **IDENTIFY PROPER ATTIRE TO BE WORN WITHIN THE AREAS OF THE OR.**
3. **DISCUSS HOW THE ENVIRONMENTAL LAYOUT CONTRIBUTES TO ASEPTIC TECHNIQUE.**
4. **DESCRIBE THE SPECIAL PROCEDURE ROOMS CONNECTED TO THE OR (CYSTO, ENDOSCOPY)**

- **CHAPTER11 (B&K)**

1. **COMPARE THE DIFFERENCES BETWEEN HOSPITAL BASED SERVICES AND AMBULATORY SURGERY CENTERS.**
2. **DISTINGUISH BETWEEN ACTIVITIES IN FIXED AND MOBILE SURGERY LOCATIONS.**
3. **DESCRIBE THE DIFFERENCES BETWEEN HUMAN AND VETERINARY SURGERY.**

LECTURE MATERIAL EXAM 1	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
CHAPTER 10: <ul style="list-style-type: none"> ◦ PHYSICAL FACILITIES CHAPTER 11: <ul style="list-style-type: none"> ◦ AMBULATORY SURGERY CENTERS AND ALTERNATIVE SURGICAL LOCATIONS 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 176-194) ◦ HOMEWORK ASSIGNMENT- HANDOUT - 'INTRODUCTION TO THE HEALTH CARE FACILITY' ◦ READING ASSIGNMENT B&K (PG 195-207) EXAM- CHAPTERS <ul style="list-style-type: none"> ◦ B&K- 10/11/12/15/16

*** OBJECTIVES**

- **CHAPTER 1 (B&K)**

1. **NAME EDUCATIONAL RESOURCES AVAILABLE FOR THE LEARNER.**
2. **DEFINE THE DIFFERENCE BETWEEN ANDRAGOGY AND PEDAGOGY.**
3. **DESCRIBE HOW ADULT LEARNING PRINCIPLES APPLY TO PATIENT TEACHING.**
4. **DISCUSS THE PROBLEMS ASSOCIATED WITH DISRUPTIVE BEHAVIOR IN THE PERIOPERATIVE ENVIRONMENT.**

- **CHAPTER 2 (B&K)**

1. **DISCUSS HOW STANDARDIZATION INFLUENCES PATIENT CARE.**
2. **DESCRIBE PROFESSIONAL SOURCES OF PATIENT CARE STANDARDS.**
3. **LIST THREE MAIN ASPECTS OF ACCOUNTABILITY.**

- **CHAPTER 3 (B&K)**

1. **DEFINE NEGLIGENCE AS IT APPLIES TO CAREGIVERS.**
2. **DISCUSS INFORMED CONSENT.**
3. **DESCRIBE THE IMPORTANCE OF PATIENT CARE DOCUMENTS.**
4. **LIST SEVERAL METHODS OF DOCUMENTATION OF PATIENT CARE.**

LECTURE MATERIAL EXAM 2	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
CHAPTER 1 <ul style="list-style-type: none"> ◦ PERIOPERATIVE EDUCATION 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 1-15) ◦ HOMEWORK ASSIGNMENT (KEY TERMS AND DEFINITIONS, PG 1)
CHAPTER 2 <ul style="list-style-type: none"> ◦ FOUNDATIONS OF THE PERIOPERATIVE PATIENT CARE STANDARDS 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 16-37) ◦ HOMEWORK ASSIGNMENT- HANDOUT “ THE PATIENT IN SURGERY “
CHAPTER 3 <ul style="list-style-type: none"> ◦ LEGAL, REGULATORY, AND ETHICAL ISSUES 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 38-55) ◦ HOMEWORK ASSIGNMENT- HANDOUT “LAW AND ETHICS”

*** OBJECTIVES**

- **CHAPTER 4 (B&K)**

1. **DEFINE THE CONCEPT OF THE STERILE TEAM.**
2. **DEFINE THE CONCEPT OF THE NON-STERILE TEAM.**
3. **DESCRIBE THE ROLE OF THE CIRCULATING NURSE.**
4. **DESCRIBE THE ROLE OF THE SCRUB PERSON.**
5. **DESCRIBE THE CREDENTIALING PROCESS FOR THE PERIOPERATIVE NURSE.**
6. **DESCRIBE THE CREDENTIALING PROCESS FOR THE SURGICAL TECHNOLOGIST.**

- **CHAPTER 5 (B&K)**

1. **LIST IMPORTANT PERIOPERATIVE ACTIVITIES OF THE FIRST ASSISTANT.**
2. **DESCRIBE THE PATIENT CARE DISCIPLINES WITH THE APPROPRIATE.**
3. **EDUCATION FUNCTIONS IN THE ROLE OF THE FIRST ASSISTANT.**
4. **DISCUSS THE LEGAL ISSUES OF THE FIRST ASSISTANT ROLE.**

- **CHAPTER 6 (B&K)**
- 1. **DEFINE THE ROLE OF THE PERIOPERATIVE MANAGEMENT TEAM.**
- 2. **DESCRIBE THE RELATIONSHIP BETWEEN THE PERIOPERATIVE ENVIRONMENT AND OTHER PATIENT CARE DEPARTMENTS.**
- 3. **DEFINE THE ROLE OF INTRADEPARTMENTAL SURGICAL SERVICES COMMITTEES.**
- 4. **FACILITATE MEDICATION IN CONFLICT RESOLUTION.**
- **CHAPTER 7 (B&K)**
- 1. **DESCRIBE MASLOW'S HIERARCHY OF NEEDS.**
- 2. **DESCRIBE SOME CHARACTERISTICS OF DIVERSITY IN A PATIENT POPULATION.**
- 3. **LIST THE KEY ELEMENTS OF A PATIENT CENTERED APPROACH.**
- 4. **DESCRIBE HOW THE PATIENT MAY PERCEIVE CARE.**

LECTURE MATERIAL EXAM 2	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
CHAPTER 4 <ul style="list-style-type: none"> ◦ THE PERIOPERATIVE PATIENT CARE TEAM AND PROFESSIONAL CREDENTIALING 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 56-63) ◦ HOMEWORK ASSIGNMENT- HAND OUT- "THE SURGICAL TECHNOLOGIST"
CHAPTER 5 <ul style="list-style-type: none"> ◦ THE SURGICAL FIRST ASSISTANT 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 64-78) ◦ HOMEWORK ASSIGNMENT- B&K- KEY TERMS AND DEFINITIONS (PG 64)
CHAPTER 6 <ul style="list-style-type: none"> ◦ ADMINISTRATION OF THE PERIOPERATIVE PATIENT 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 79-96)
CHAPTER 7 <ul style="list-style-type: none"> ◦ THE PATIENT: THE REASON FOR YOUR EXISTENCE 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- B&K (PG 99-124) ◦ HOMEWORK ASSIGNMENT- HANDOUT "THE PATIENT IN SURGERY"
	EXAM CHAPTERS <ul style="list-style-type: none"> ◦ B&K- 1/2/3/4/5/6/7

*** OBJECTIVES**

- **CHAPTER 23 (B&K)**
- 1. **CALCULATE DRUG DOSES IN THE PERIOPERATIVE ENVIRONMENT,**

2. **LIST COMMON DRUGS USED IN SURGERY.**
3. **IDENTIFY DRUG SOURCES AND THE EFFECT ON PATIENT USE.**
4. **DEMONSTRATE DRUG HANDLING IN THE STERILE ENVIRONMENT.**

- **CHAPTER 24 (B&K)**

1. **IDENTIFY METHODS OF GENERAL ANESTHESIA.**
2. **DESCRIBE THE PHYSIOLOGIC EFFECTS OF GENERAL ANESTHESIA.**
3. **DISCUSS THE PURPOSE OF CRICOID PRESSURE.**
4. **DIFFERENTIATE THE DIFFERENCES BETWEEN GENERAL ANESTHESIA AND REGIONAL ANESTHESIA.**
5. **LIST THE KEY POINTS IN PROVIDING SAFETY FOR THE ANESTHETIZED PATIENT.**

LECTURE MATERIAL EXAM 3	EXAMINATION/READING AND HOMEWORK ASSIGNMENTS
CHAPTER 23 <ul style="list-style-type: none"> ◦ SURGICAL PHARMACOLOGY CHAPTER 24 <ul style="list-style-type: none"> ◦ ANESTHESIA: TECHNIQUES AND AGENTS 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- (B&K PG 411- 421) ◦ HOMEWORK ASSIGNMENT- HANDOUT " PERIOPERATIVE PHARMACOLOGY" ◦ READING ASSIGNMENT (B&K 422-456) EXAM CHAPTERS: <ul style="list-style-type: none"> ◦ B&K- 23/24

*** OBJECTIVES**

- **CHAPTER 33 (B&K)**
 - **CHAPTER 16 (ALEXANDER'S)**
1. **DESCRIBE THE SURGICAL ANATOMY OF THE BREAST.**
 2. **DESCRIBE THE SURGICAL PROCEDURES USED TO DIAGNOSE BREAST CANCER.**
 3. **DESCRIBE THE SURGICAL ANATOMY OF VARIOUS HERNIAS.**
 4. **LIST THE TYPES OF HERNIAS**
 5. **LIST THE TYPES OF REPAIRS USED**
 6. **LIST THE ADVANTAGES AND DISADVANTAGES TO OPEN HERNIA PROCEDURES AND LAPAROSCOPIC PROCEDURES**

LECTURE MATERIAL	EXAMINATIONS/READING AND
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EXAM 4	HOMEWORK ASSIGNMENT
CHAPTER 33 CHAPTER 16 <ul style="list-style-type: none"> ◦ GENERAL SURGERY/BREAST SURGERY 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT: (B&K PG 660- 664), (ALEXANDER'S 588-609)
CHAPTER 33 CHAPTER 12 <ul style="list-style-type: none"> ◦ GENERAL SURGERY / HERNIA PROCEDURES 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT: (B&K 685-686), (ALEXANDER'S 396-417) EXAM CHAPTERS: <ul style="list-style-type: none"> ◦ B&K- 33 ◦ ALEXANDER'S- 12/14

*** OBJECTIVES**

- **CHAPTER 33 (B&K)**
 - **CHAPTER 10 (ALEXANDER'S)**
1. **DESCRIBE THE RELEVANT ANATOMY OF THE ORGANS OF THE GASTROINTESTINAL TRACT.**
 2. **DISCUSS THE DIFFERENCES BETWEEN LAPAROSCOPIC AND OPEN PROCEDURES.**
 3. **LIST SEVERAL SURGICAL AND DIAGNOSTIC PROCEDURES USED TO EVALUATE GI TRAUMA.**
 4. **LIST THE ANASTOMOSES USED FOR INTESTINAL SURGERY.**
- **CHAPTER 33 (B&K)**
 - **CHAPTER 11 (ALEXANDER'S)**
1. **IDENTIFY RELEVANT ANATOMY PERTAINING TO THE BILIARY TRACT / PANCREAS / LIVER / SPLEEN.**
 2. **DISCUSS THE SURGERIES OF THE BILIARY TRACT / PANCREAS / LIVER / AND SPLEEN.**
 3. **IDENTIFY RELEVANT ANATOMY PERTAINING TO THE BILIARY TRACT / PANCREAS / LIVER / SPLEEN.**
 4. **DISCUSS THE SURGERIES OF THE BILIARY TRACT / PANCREAS / LIVER / AND SPLEEN.**

LECTURE MATERIAL EXAM 5	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
CHAPTER 33 CHAPTER 10 <ul style="list-style-type: none"> ◦ GASTROINTESTINAL TRACT 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- (B&K 670-680), (ALEXANDER'S 295-354) ◦ HOMEWORK ASSIGNMENT- HANDOUT "GENERAL SURGERY"
CHAPTER 33 CHAPTER 11	

<ul style="list-style-type: none"> ◦ BILIARY TRACT SURGERY <p>CHAPTER 33 CHAPTER 11</p> <ul style="list-style-type: none"> ◦ PANCREAS/LIVER/SPLEEN 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- (B&K 664- 668), (ALEXANDER'S 357) ◦ READING ASSIGNMENT- (B&K 668-670), (ALEXANDER'S 381-394) ◦ HOMEWORK ASSIGNMENT- "GENERAL SURGERY" <p>EXAM CHAPTERS</p> <ul style="list-style-type: none"> ◦ B&K- 33 ◦ ALEXANDER'S- 10/11
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- **CHAPTER 34 (B&K)**
- **CHAPTER 13 (ALEXANDER'S)**

*** OBJECTIVES**

- 1. RECOGNIZE THE RELEVANT ANATOMY AND PHYSIOLOGY OF THE FEMALE REPRODUCTIVE SYSTEM.**
- 2. DISCUSS THE SPECIAL PREOPERATIVE OBSTETRIC AND GYNECOLOGIC DIAGNOSTIC PROCEDURES AND TESTS.**
- 3. LIST THE NAMES AND USES OF OBSTETRIC AND GYNECOLOGIC INSTRUMENTS, SUPPLIES, AND DRUGS.**
- 4. DISCUSS THE SURGERIES PERFORMED FOR OBSTETRIC AND GYN PROCEDURES.**
- 5. RECOGNIZE THE IMMEDIATE POSTOPERATIVE CARE AND POSSIBLE COMPLICATIONS OF OB/GYN PROCEDURES.**

LECTURE MATERIAL EXAM 6	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
<p>CHAPTER 34 CHAPTER 13</p> <ul style="list-style-type: none"> ◦ GYNECOLOGY AND OBSTETRICS 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT- (B&K 689-722), (ALEXANDER'S 419-477) ◦ HOMEWORK ASSIGNMENT - HANDOUT " GYNECOLOGY AND OBSTETRICAL SURGERY" <p>EXAM CHAPTERS</p> <ul style="list-style-type: none"> ◦ B&K- 34 ◦ ALEXANDER'S 13

- **CHAPTER 8 (B&K)**
- **CHAPTER 25(ALEXANDER'S)**

*** OBJECTIVES**

- 1. DESCRIBE PEDIATRIC CARE IN TERMS OF DEVELOPMENTAL STAGES.**
- 2. IDENTIFY AGE SPECIFIC CONSIDERATIONS IN THE CARE OF PEDIATRIC PATIENTS.**
- 3. DESCRIBE VARIOUS PROCEDURES PERFORMED ON PEDIATRIC PATIENTS.**

LECTURE MATERIAL EXAM 7	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
CHAPTER 8 CHAPTER 25 <ul style="list-style-type: none"> ◦ PEDIATRICS 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT (B&K PG 125-159), (ALEXANDER'S 1085-1156) ◦ HOMEWORK ASSIGNMENT- HANDOUT "PEDIATRIC SURGERY" EXAM CHAPTER <ul style="list-style-type: none"> ◦ B&K- 8 ◦ ALEXANDER'S-25

- **CHAPTER 13 (B&K)**

*** OBJECTIVES**

- 1. APPLY ELECTRICAL SAFETY PRECAUTIONS**
- 2. CITE THE BASIC PRINCIPLES OF ELECTRICITY AND THEIR APPLICATION IN THE OPERATING ROOM**
- 3. LIST VARIOUS LASERS USED IN SURGERY**
- 4. DISCUSS THE INTERACTION OF LASERS WITH TISSUE**
- 5. DISCUSS LASER PARTS**

LECTURE MATERIAL EXAM8	EXAMINATION/READING AND HOMEWORK ASSIGNMENT
CHAPTER 13 <ul style="list-style-type: none"> ◦ ELECTRICITY/ LASERS 	<ul style="list-style-type: none"> ◦ READING ASSIGNMENT (B&K PG 221-224) EXAM CHAPTER <ul style="list-style-type: none"> ◦ B&K- 13

FINAL EXAM

- * **UPON COMPLETION OF THIS COURSE, THE STUDENT WILL BE ABLE TO:**
 - **IDENTIFY THE COMPONENTS OF APPROPRIATE OR ATTIRE WORN IN THE SPECIFIC AREAS OF THE SURGICAL SUITE.**
 - **IDENTIFY THE COMPONENTS OF PPE DONNED BEFORE PERFORMING SURGICAL HAND SCRUB**
 - **IDENTIFY THE PERIMETERS OF THE SURGICAL GOWN.**
 - **DEMONSTRATE THE CORRECT METHOD OF GOWNING AND GLOVING BEFORE ESTABLISHING THE STERILE FIELD.**
 - **DEMONSTRATE THE APPROPRIATE METHOD OF CHANGING A CONTAMINATED GLOVE DURING A SURGICAL PROCEDURE.**
 - **DEMONSTRATE THE PROPER METHOD FOR REMOVING A CONTAMINATED GOWN AND GLOVES.**
 - **DESCRIBE HOW A ROOM IS PREPARED FOR THE FIRST CASE OF THE DAY.**
 - **DESCRIBE HOW A ROOM IS CLEANED AND PREPARED BETWEEN CASES.**
 - **DESCRIBE HOW A ROOM IS TERMINALLY CLEANED AT THE END OF THE DAY.**
 - **DISCUSS ENVIRONMENTAL RESPONSIBILITY.**
 - **DEFINE ASEPTIC TECHNIQUE.**
 - **DEFINE STERILE TECHNIQUE.**
 - **LIST PRINCIPLES OF STANDARD PRECAUTIONS.**
 - **DISCUSS THE OBLIGATION OF THE TEAM TO PRACTICE ASEPTIC AND STERILE TECHNIQUE.**
 - **IDENTIFY SPECIFIC AREAS WITHIN THE OR.**
 - **DISCUSS HOW THE ENVIRONMENTAL LAYOUT CONTRIBUTES TO ASEPTIC TECHNIQUE.**
 - **DESCRIBE THE SPECIAL PROCEDURE ROOMS CONNECTED TO THE OR (CYSTO, ENDOSCOPY)**
 - **LIST THE DIFFERENCES BETWEEN HOSPITAL BASED SERVICES AND AMBULATORY SURGERY CENTERS.**
 - **DISCUSS THE PROBLEMS ASSOCIATED WITH DISRUPTIVE BEHAVIOR IN THE PERIOPERATIVE ENVIRONMENT.**
 - **DISCUSS HOW STANDARDIZATION INFLUENCES PATIENT CARE**
 - **DESCRIBE PROFESSIONAL SOURCES OF PATIENT CARE STANDARDS.**
 - **LIST THE ASPECTS OF ACCOUNTABILITY.**
 - **DEFINE NEGLIGENCE AS IT APPLIES TO CAREGIVERS.**
 - **DISCUSS INFORMED CONSENT.**
 - **DESCRIBE THE IMPORTANCE OF PATIENT CARE DOCUMENTS.**
 - **LIST METHODS OF DOCUMENTATION OF PATIENT CARE.**
 - **DEFINE THE CONCEPT OF THE STERILE TEAM/AND THE NON-STERILE TEAM MEMBERS**
 - **DESCRIBE THE ROLE OF THE CIRCULATING NURSE/ AND THE ROLE OF THE SCRUB PERSON.**

- **DESCRIBE THE CREDENTIALING PROCESS FOR THE PERIOPERATIVE NURSE/ AND THE SURGICAL TECHNOLOGIST.**
- **LIST THE DUTIES OF THE FIRST ASSISTANT/ EDUCATIONAL FUNCTIONS/ AND LEGAL ISSUES ASSOCIATED WITH THE DUTIES OF THE FIRST ASSISTANT.**
- **DESCRIBE THE RELATIONSHIP BETWEEN THE PERIOPERATIVE ENVIRONMENT AND OTHER PATIENT CARE DEPARTMENTS.**
- **DEFINE THE ROLE OF INTRADEPARTMENTAL SURGICAL SERVICES COMMITTEES.**
- **DESCRIBE MASLOW'S HIERARCHY OF NEEDS.**
- **DESCRIBE SOME CHARACTERISTICS OF DIVERSITY IN A PATIENT POPULATION.**
- **CALCULATE DRUG DOSES IN THE PERIOPERATIVE ENVIRONMENT.**
- **LIST COMMON DRUGS USED IN SURGERY.**
- **IDENTIFY DRUG SOURCES AND THE EFFECT ON PATIENT USE.**
- **DEMONSTRATE DRUG HANDLING IN THE STERILE ENVIRONMENT.**
- **IDENTIFY METHODS OF GENERAL ANESTHESIA.**
- **DESCRIBE THE PHYSIOLOGIC EFFECTS OF GENERAL ANESTHESIA.**
- **DISCUSS THE PURPOSE OF CRICOID PRESSURE.**
- **DIFFERENTIATE THE DIFFERENCES BETWEEN GENERAL ANESTHESIA AND REGIONAL ANESTHESIA.**
- **DESCRIBE THE SURGICAL ANATOMY OF THE BREAST.**
- **DESCRIBE THE SURGICAL PROCEDURES USED TO DIAGNOSE BREAST CANCER.**
- **LIST THE TYPES OF HERNIAS**
- **LIST THE TYPES OF REPAIRS USED**
- **LIST THE ADVANTAGES AND DISADVANTAGES TO OPEN HERNIA PROCEDURES AND LAPAROSCOPIC PROCEDURES.**
- **DESCRIBE THE RELEVANT ANATOMY OF THE ORGANS OF THE GASTROINTESTINAL TRACT.**
- **DISCUSS THE DIFFERENCES BETWEEN LAPAROSCOPIC AND OPEN PROCEDURES.**
- **LIST SEVERAL SURGICAL AND DIAGNOSTIC PROCEDURES USED TO EVALUATE GI TRAUMA.**
- **LIST THE ANASTOMOSES USED FOR INTESTINAL SURGERY.**
- **IDENTIFY RELEVANT ANATOMY PERTAINING TO THE BILIARY TRACT / PANCREAS / LIVER / SPLEEN.**
- **DISCUSS THE SURGERIES OF THE BILIARY TRACT / PANCREAS / LIVER / AND SPLEEN.**
- **DESCRIBE THE RELEVANT ANATOMY OF THE ORGANS OF THE GASTROINTESTINAL TRACT.**
- **DISCUSS THE DIFFERENCES BETWEEN LAPAROSCOPIC AND OPEN PROCEDURES.**
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- **IDENTIFY RELEVANT ANATOMY PERTAINING TO THE BILIARY TRACT / PANCREAS / LIVER / SPLEEN.**

- **DISCUSS THE SURGERIES OF THE BILIARY TRACT / PANCREAS / LIVER / AND SPLEEN.**
- **DESCRIBE PEDIATRIC CARE IN TERMS OF DEVELOPMENTAL STAGES.**
- **IDENTIFY AGE SPECIFIC CONSIDERATIONS IN THE CARE OF PEDIATRIC PATIENTS.**
- **DESCRIBE VARIOUS PROCEDURES PERFORMED ON PEDIATRIC PATIENTS.**
- **APPLY ELECTRICAL SAFETY PRECAUTIONS**
- **CITE THE BASIC PRINCIPLES OF ELECTRICITY AND THEIR APPLICATION IN THE OPERATING ROOM**
- **LIST VARIOUS LASERS USED IN SURGERY**
- **DISCUSS THE INTERACTION OF LASERS WITH TISSUE**
- **DISCUSS LASER PARTS**

*** HERE ARE SOME TIPS TO STUDY FOR SURGICAL TECHNOLOGY:**

1. **BE ON TIME SO YOU ARE NOT RUSHED.**
2. **BE PREPARED WITH YOUR BOOKS/HANDOUTS/PEN, PENCIL/NOTEBOOK.**
3. **READ YOUR CHAPTERS BEFORE YOU COME TO CLASS.**
4. **NOTE WHAT YOU DON'T UNDERSTAND AND IF IT ISN'T COVERED IN LECTURE ASK ABOUT IT.**
5. **ASK QUESTIONS.**
6. **STUDY THE REVIEW QUESTIONS AT THE END OF THE CHAPTER.**
7. **TAKE ADVANTAGE OF THE LAB AND ITS EQUIPMENT.**
8. **SOME INFORMATION MUST BE MEMORIZED.**
9. **IT IS IMPORTANT TO REVIEW YOUR NOTES EVERY DAY EVEN IF YOU JUST READ THEM OVER ONCE. IF YOU KEEP UP WITH THE MATERIAL YOU CAN DO WELL.**
10. **FORM A STUDY GROUP WITH YOUR CLASSMATES AND HELP EACH OTHER. SOMETIMES YOUR FELLOW CLASSMATES CAN HELP TO EXPLAIN LECTURE MATERIAL YOU JUST DIDN'T UNDERSTAND AND YOU CAN DO THE SAME FOR THEM.**
11. **PLEASE ASK FOR EXTRA HELP IF NEEDED. WE WILL ALWAYS MAKE TIME FOR YOU**

