

SAN JUAN COLLEGE

SURG 235 Surgical Simulation Lab Section Name Section Credit Hours Credits
Syllabus

Section-specific Course Description:

Course Level Objectives

This course introduces students to the ethics, language, techniques and instrumentation in the profession of Surgical Assisting. At the end of this course, students will be able to:

1. Summarize the indications considerations and complications or urinary catheterization.
2. Describe the fundamental principles of patient positioning.
3. Interpret the physiological effects of surgical positioning.
4. Demonstrate skills in positioning the patient for various surgical specialties utilizing positioning devices and maintaining patient stability.
5. Identify circumstances and complications associated with tourniquet use.
6. Describe the application o various types of tourniquets.
7. Identify the proper draping technique for each surgical specialty
8. Apply knowledge in the selection and us of surgical instruments, and demonstrate proficiency in tissue dissection and handling.
9. Identify potential patient safety issues of instrument usage.
10. Demonstrate selection and use of specialized equipment.
11. Determine and demonstrate methods for achieving optimal operative site exposure according to the surgical procedure.
12. Explain the rational s for determining the surgical prep solution and patient skin preparation for the various surgical procedures.
13. Demonstrate the types of surgical skin preparations.
14. Apply knowledge of patient skin assessment as it relates to the various surgical populations.
15. Evaluate the anatomy involved in wound healing and suturing.

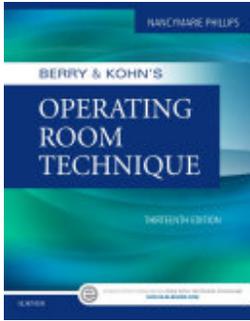
16. Analyze the phases and techniques involved in wound closure healing and complications.
17. Demonstrate the techniques involved in surgical knot tying and suturing.
18. Demonstrate knowledge of wound drains and dressing applications.
19. Evaluate the role and definition.
20. Analyze ethical and moral responsibilities relevant to the surgical assistant.
21. Interpret legal responsibilities relevant to the surgical assistant.
22. Analyze the principles of extracellular fluid distribution between plasma and interstitial lymphatic volumes.
23. Assess the clinical sign of hypovolemic, septic, hemorrhagic, and cardiogenic shock.
24. Analyze perioperative principles of patient assessment and how they relate to anesthesia.
25. Consider the goal of anesthesia as it relates to the perioperative patient in the surgical setting.
26. Assess the risk and adverse effects of anesthesia, conscious sedation, local anesthetic agents and pain management as it relates to the perioperative patient.
27. Understand the principles of the local techniques.
28. Examine the application of topical anesthetic agents.
29. Evaluate preoperative evaluation methods.
30. Demonstrate an understanding of the role of the surgical assistant in the preparing and evaluating preoperative checklist.
31. Assess potential intraoperative instability factors.
32. Correlate the relevant advanced surgical anatomy to the surgical procedure.
33. Correlate the relevant pathophysiology to the surgical procedure.
34. Analyze the specific patient care factors the surgical assistant should coordinate with the surgical team.
35. Discuss the intraoperative role and duties of the surgical assistant according to the procedure to be performed.

Simulation Lab will aid the student in the transition to the clinical setting. Remember, this class is only a stepping-stone!

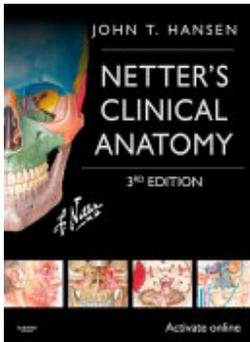
True learning in the art of Surgical Assisting begins in the first year AFTER graduation!

Required Texts and/or Materials

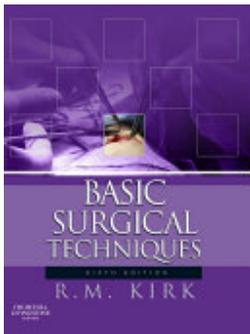
Berry & Kohn's Operating Room Technique



9780323399272
Nancymarie Phillips
Elsevier Health Sciences
2016-03-04



Netter's Clinical Anatomy E-Book
9781455770632
John T. Hansen
Elsevier Health Sciences
2014-02-14



Basic Surgical Techniques E-Book
9780702049101
R. M. Kirk
Elsevier Health Sciences
2010-02-16

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Course Requirements

Students will do the following activities:

1. Have required textbooks and workbooks, packets, lab supplies listed under required textbooks.
2. Complete and submit written assignments by announced due dates.

3. Take all examinations and quizzes on the dates administered. Make up exams will be given only under certain circumstances with a reduction in the grade by 10%.
4. Practice procedures and perform demonstrations satisfactorily.
5. Participate in class and lab discussions and activities.
6. Maintain proper appearance and professional dress.
7. Maintain professional behavior
8. Meet specific objectives for each laboratory experience consistently.
9. Follow safety procedures and guidelines.

Read and verify understanding of San Juan College, Surgical First Assist Student Handbook.

Other Classroom Policies and Expectations

Students are expected to conduct themselves in an ethical and professional manner at all times. All academic assignments, including papers, tests, or other assignments, are to be the work of the individual student. The following are examples of unethical or unprofessional behavior:

- Plagiarism
- Unprofessional behavior in communication with faculty and staff
- Completing an assignment for another student in part or in whole

Consequences

Any student who acts in an unethical manner will receive a failing grade. Any second academic incident or unprofessional communication with staff or faculty can result administrative termination from the Institute. Students who were withdrawn due to poor student conduct may not be reconsidered to re-enroll.

Grading

Final grades are calculated based on the following...

Here is a sample of one formatting option:

What does it mean to weight a grade? When grades are weighted, some assignments (e.g. Final Exam) or categories of assignments (e.g. Quizzes) count more than others.

Why not just assign more points to the things that are harder? In a perfect world this would work. However, there is far more flexibility in weighting grades. If an instructor decides that quizzes should make up 25% of the total points in a course, it doesn't matter whether there is 1 quiz, 5 quizzes or, heaven forbid, 50 quizzes. The total points earned for the quizzes still makes up 25% of the final grade. If an instructor decides to increase or decrease the workload based on the particular needs of any group of students, weighted grades make that easy. In a scenario where grades are weighted by

category and the number of assignments in a category changes, no changes to the course points or course guide would be necessary. If, on the other hand, the point system was used, and a change to the course assignments is needed, the total points for the class would change and the course guide would need to be updated.

How are the points for a weighted item calculated? Multiply each score over the total points possible by the weight. For example, the midterm is worth 100 points. If you earned 90/100 the calculation would be $.25(90/100)=.225$. Expressed as a percent, you earned 22.5%

Grading Scale:

A = 90% or higher

B = 80–89

C = 70–79

D = 60–69

F = 59 or below.

Course Time Commitment

Students should expect to spend 18-24 hours or more per week for course work of class to be successful in this program.

Canvas Participation and Expectations

Because assignments and notifications are posted in Canvas, you should check into Canvas daily Monday-Friday. Majority of communications will be through Canvas email unless other wise specified.

Participation and Attendance Policy

1. Attendance to didactic and lab is an integral part of student learning. When a student misses more than three days of didactic and lab then this interferes with the student's ability to understand the material. Attendance will be documented thoroughly and if a student has an unexcused absence then this could adversely affect the grade for the course.

2. Tardy attendance is disruptive not only to the instructor, but to peers. Please be ready to begin class at the designated time

1 Unexcused Absence-----Counseling

2 Unexcused Absences-----Verbal Warning

3 Unexcused Absences-----Written Warning

After 3 Unexcused Absences Student Will Be Dropped from Course

Instructor Response Times & Regular Interaction Expectations

Students I will answer email and phone calls daily (Monday-Friday) but expect that in some circumstances it may take up to 72 hours to get a response. Scheduled assignments will be graded by the end of each week.

Key Dates to Remember

[Full Academic Calendar](#)

Course Schedule

Assignments & Academic Calendar

DAY	Topic /Content	Objectives	SACC
Week 1 Chapters 20-24	<p>Lecture Video Canvas Review Chapters 20-22 Read Chapter 23 Surgical Pharmacology 24 Anesthesia Techniques and Agents Discussion Herbal interactions Quiz Chapters 23-24 Open Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Review Pharmacology baseline 7 Rs, Avoiding errors. 2. Discuss Mask ventilation, and types of Anesthesia. 3. Discuss topical anesthetics. 4. Classify Local anesthetics and agents. 	<ol style="list-style-type: none"> 1. Summarize drug dosages, common drugs used, drug sources, and effect on patient, drug handling. Identify methods of general anesthesia, physiologic effects of general anesthesia, cricoid pressure. 1. Differentiate between general and regional anesthesia, providing safety for the patient. 	APPPM

<p>Week2 Chapters 26-27</p>	<p>Lecture Video Canvas Read Chapters 26 Positioning, Prepping, and Draping the Patient 27 Physiologic Maintenance and Monitoring of the Perioperative Patient Chapter 27 Chapter background assessment monitoring Quiz Chapters 26-27 Quiz Chapters 23-24 Open Friday 11:59 Close Sunday 11:59 Kirk's Basic Surgical Techniques Chapter 3 Handling Threads (knots, ligatures, stitches, and material) https://vimeo.com/154586209 Mayfield https://vimeo.com/154607619 Wilson frame https://vimeo.com/154627347 Jackson Table https://vimeo.com/231962027 Fracture Table</p> <ol style="list-style-type: none"> 1. Discuss Preliminary Positioning considerations 2. Anatomic and Physiologic considerations 3. Accessibility for Anesthesia and individual considerations. 4. Identify stabilization devices and surgical positions. 5. Review urinary catheterization, and Patient Skin preparation. 	<ol style="list-style-type: none"> 1. Identify safety hazards associated with moving a patient, anatomic considerations for positioning, chemical and mechanical prepping, draped using sterile technique. 2. Review monitoring body systems that should be during a surgical procedure, invasive and noninvasive patient monitoring. 	<p>PSSA APPPM WH SA Role</p>
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	<p>6. Explain Drapes, draping procedures, and techniques.</p> <p>7. Discuss Monitoring Physiologic Functions.</p>		
<p>Week 3 Chapters 28-29</p>	<p>Lecture Video Canvas Read Chapters 28 Surgical Incisions, implants and Wound Closure 29 Wounding Healing and Hemostasis Chapter 29 Chapter background assessment Research necrotizing fasciitis Quiz Chapters 28-29 Open Friday 11:59pm Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Identify surgical Incisions, Langer's lines, and anatomy of the skin. 2. Review Surgical Landmarks 3. Understand wound closure, suturing techniques, Methods of Suturing, Knot placement, instrument tie, Retention and traction sutures. Endoscopic suturing. Explain Surgical Staplers (internal, linear, intraluminal circular, ligating and dividing, endoscopic, and clips). 4. Explain graft material. 5. Understand mechanism of wound healing (First, Second, and Third intention) 6. Identify Wound types, and Wound classification. 	<ol style="list-style-type: none"> 1. Discuss skin and underlying tissues, hemostasis, rationale for the surgical incision, absorbable and nonabsorbable sutures, proper wound closure. 2. Identify factors that affect wound healing dressing materials. 	<p>WH SICA Hema SA Role,</p>

	<ol style="list-style-type: none"> 7. Review Factors causing SSI, Surgical Technique related to SSI. 8. Summarize Hemostasis and methods of Hemostasis (chemical, mechanical, thermal) 9. Review Wound management (drains, dressing types). 10. Discuss Complications of Wound Healing (scars Keloids proud flesh), Postop complications. 11. Identify Postoperative wound infections (Necrotizing Fasciitis) 12. Review Postoperative Wound Assessment and care. 		
<p>Week 4 Chapters 30-31</p>	<p>Lecture Video Canvas Read Chapters 30 Postoperative Patient Care 31 Potential Perioperative Complications Chapter 31 Chapter background assessment Shock Quiz Chapter 30 and 31 Open Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss Postoperative observation of the patient (dermatome/myotome). 2. Review Postoperative communications and patient instructions. 	<ol style="list-style-type: none"> 1. List several functions of a post anesthesia recovery, physical assessment, recognition of complications, respiratory complications, potential dysrhythmias, acute malignant hyperthermia crisis. 	<p>EFS HPS SA Role, PPESA</p>

	<ol style="list-style-type: none"> 3. Identify Complications intraoperatively, and postoperatively (Respiratory Cardiovascular, DIC). 4. Review Fluid and Electrolyte imbalances (Acid base Balance, Electrolytes (Extracellular fluids). 5. Identify Hypovolemia and Hypervolemia. 6. Discuss Blood volume Complications, Methods of Blood loss reduction and replacement. (autologous blood, Collection methods, and substitutes) . 7. Identify the types of Shock and Metabolic Crises. 		
<p>Week 5</p>	<p>On Campus Lab Session week Lap Sim Training Hands-on Skill Assessments Student Midterm evaluation Due 2-22 Please See Lab Schedule for more details</p> <ol style="list-style-type: none"> 1. Apply Assessments, preoperative skills, intraoperative skills, postoperative skills. Assess safe tissue handling 2. providing instrument or manual wound exposure. 3. Identify methods of hemostasis, 4. suture and tying techniques. 5. Demonstrate surgical sequence including 		<p>APPPM, WH, SA PE, PSSA</p>

	<p>incisional approach, trocar insertion, injection local anesthetics</p> <p>6. postoperative assessment.</p>		
<p>Week 6 Chapter 33</p>	<p>Lecture Video Canvas Read Chapter 33 General Surgery Discussion Quiz Chapter 33 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss special considerations or general surgery. Review Breast procedures, Incision and Drainage, Breast biopsy (needle loc., Lumpectomy. Simple Radical, Modified Radical Mastectomy w/ axillary node dissection.) 2. Explain abdominal Procedures (biliary tract, Open and Laparoscopic Cholecystectomy with grams) 3. Review Liver Procedures (Biopsy, Resection, Transplants pg. 947) 4. Identify Splenic procedures (Splenectomy open and laparoscopic) 5. Discuss Pancreatic Procedures (Pancreaticojejunostomy, Pancreaticoduodenectomy" Whipple Procedure") 6. Review Esophageal Procedures (Laparoscopic 	<ol style="list-style-type: none"> 1. Correlate the relevant advance surgical anatomy to the surgical procedure. 2. Correlate the relevant pathophysiology to the surgical procedure. 3. Analyze the specific patient care factors the surgical assistant should coordinate with the surgical team. 4. Discuss the intra operative role and duties of the surgical assistant according to the procedure be performed. 5. Discuss the postoperative care of the surgical wound. 	<p>General Surgery</p>

	<p>Nissen fundoplication, Hiatal Herniorrhaphy, Esophagogastrectomy)</p> <p>7. Discuss Gastrointestinal Surgery (Gastrostomy Simple, Total, and Subtotal. Roux-en-Y Gastroenterostomy)</p> <p>8. Explain Intestinal Procedures (Small Bowel Resection, Hemi, Transverse, Anterior, and Total Colectomy. Intestinal stomas, anastomosis)</p> <p>9. Discuss Appendectomy (open and laparoscopic)</p> <p>10. Discuss Colorectal Procedures (Abdominoperineal Resection, Low Anterior Colon Resection.)</p> <p>11. Review Abdominal Trauma and complications of Abdominal Surgery.</p> <p>12. Review anorectal Procedures (Hemorrhoidectomy, Anal fissure)</p> <p>13. Identify Hernia Procedures (inguinal, femoral, umbilical, incisional and diaphragmatic) Open/ Laparoscopic.</p> <p>14. Review Amputations of lower extremity.</p>		
<p>Week 7 Chapter 34</p>	<p>Lecture Video Canvas Read Chapter 34 OB/GYN</p>	<p>1. Correlate the relevant advance surgical anatomy to</p>	<p>OB/GYN</p>

Discussion

Quiz Chapter 34 Friday 11:59

Close Sunday 11:59

1. Identify Anatomy and Physiology of the Female Reproductive system. (External genitalia, Internal Organs)
 2. Review GYN considerations (exam, surgery)
 3. Discuss Biopsy of the Cervix (Excisional, Incisional, Cone)
 4. Identify Vulvar Procedures (Simple, Total, and Radical Vulvectomy w/ Bil. Inguinal Femoral Lymphadenectomy. Bartholin glands)
 5. Review Vaginal Procedures (Vaginectomy, Vaginoplasty, Anterior and Posterior repair Colporrhaphy.)
 6. Review procedures on uterus (D&C, intrauterine thermal balloon ablation, Vaginal hysterectomy radical and LAVH Robotics, Myomectomy Abdominal Hyst. Salpingo-oophorectomy.
 7. Discuss Pelvic Exenteration.
 8. Identify Fallopian Tube Procedures (Tubal Ligation, laparoscopic/mini-laparotomy, Salpingectomy, Tuboplasty, Ovaries)
 9. Review Muscles and ligaments of the Pelvic floor, the surgical procedure. Correlate the relevant pathophysiology to the surgical procedure.
2. Analyze the specific patient care factors the surgical assistant should coordinate with the surgical team.
 3. Discuss the intra operative role and duties of the surgical assistant according to the procedure be performed.
 4. Discuss the postoperative care of the surgical wound.

	<p>MMK suspension.</p> <p>10. Identify Perioperative Obstetrics (Cerclage, Shirodkar Procedure, McDonald Procedure, Cesarean Section)</p> <p>11. Discuss Intrauterine Fetal Surgery</p>		
<p>Week 8 Chapter 35</p>	<p>Lecture Video Canvas Read Chapter 35 Urology Discussion Quiz Chapter 35 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss Anatomy and Physiology of the Urinary system (Kidneys, Uterters, Bladder, Urethra) 2. Review Special equipment and scopes. 3. Discuss Surgical procedures (Nephrectomy, open/laparoscopic, Nephrolithotomy) 4. Review Procedures of the bladder (Cystoscopy, Cystectomy w/ ileal conduit, Bladder neck suspension) 5. Discuss procedures on the Urethra (urethrostomy, dilation, urethrotomy, urethroplasty) 6. Review the Male reproductive organs and procedures (Testes, Orchiectomy, 	<ol style="list-style-type: none"> 1. Correlate the relevant advance surgical anatomy to the surgical procedure. Correlate the relevant pathophysiology to the surgical procedure. 2. Analyze the specific patient care factors the surgical assistant should coordinate with the surgical team. 3. Discuss the intra operative role and duties of the surgical assistant according to the procedure be performed. 4. Discuss the postoperative care of the surgical wound. 	<p>Genitourinary</p>

	<p>Hydrocelectomy, torsion, Vas Deferens Vasovasostomy)</p> <p>7. Discuss procedure of the prostate gland (TUMT, TUNA, and TURP. Prostatectomy Suprapubic, Retropubic/ Radical, Robotic Assisted Prostatectomy.</p> <p>8. Discuss Postoperative Complications of urologic surgery.</p>		
<p>Week 9 Chapter 36</p>	<p>Lecture Video Canvas Read Chapter 36 Orthopedic Surgery Discussion Quiz Chapter 36 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss the Anatomy and Physiology of the Musculoskeletal system. 2. Review instrumentation and equipment in orthopedic surgery. Explain general and indications for surgery. 3. Discuss procedures (Closed reduction, External Fixation, ORIF) 4. Review the use of plates and screws. 5. Discuss Joint procedures (Dislocation, Arthrodesis, Arthroplasty, Total Joint Replacement Knee/ Hip, Arthroscopy, Bunionectomy) 	<ol style="list-style-type: none"> 1. Discuss several types of fractures and the stabilization of each. 2. Describe several common specialty orthopedic instruments. 3. Discuss bone healing. 4. Discuss the process for applying a cast. 5. Describe the care of a patient undergoing orthopedic surgery. 	<p>Orthopedic Surge Wound healing</p>

	<ol style="list-style-type: none"> 6. Review Postoperative care considerations 7. Discuss repair of Tendons and Ligaments. 8. Explain Cast application. 9. Understand Postoperative Complications. 		
<p>Week 10 Chapter 37-38</p>	<p>Lecture Video Canvas Read Chapters 37 Neurosurgery of the Brain and Peripheral Nerves 38 Spinal Surgery Discussion Quiz Chapters 37-38 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Identify Anatomy of the (cranium, meninges) 2. Discuss the Brain (Cerebrum, Pons and Cerebellum, Medulla, Ventricles) 3. Review Diagnostics, Prognostics, and Hemostasis. 4. Identify adjuncts to Visibility during surgery. 5. Discuss Patient Considerations for Craniotomy. 6. Review surgical procedures of the Cranium (Craniectomy, Craniotomy, Cranioplasty) 7. Discuss procedures Acoustic neuroma, AV Malformation, Stereotaxis. 	<ol style="list-style-type: none"> 1. Identify Anatomy and Physiology of the Brain. 2. Describe the significance of neurological monitoring. 3. Discuss the risks associated with neurosurgery. 4. Describe the anatomy of the vertebral column and spinal cord. 5. Describe the implications of the dermatome and myotome distributions. 6. Discuss the implications of an individualize plan of care for each type of spine surgery. 7. Differentiate between the types of spinal positioning devices and OR beds. 	<p>Neurosurgery</p>

	<ol style="list-style-type: none"> 8. Review extracranial procedures (Carotid artery, Transsphenoidal). 9. Discuss Peripheral Nerve Surgery. 10. Review Curvature of the spine, the spinal cord and spinal nerves. 11. Discuss Diagnostics and positioning for spinal surgery. 12. Identify Anesthesia considerations. 13. Review Intraoperative monitoring of the spine, Robotic assisted spinal surgery, and hemostasis. Graft material and stabilization. 14. Discuss Spinal Trauma, Discectomy. 15. Review Anterior Posterior Cervical, Thoracic and Lumbar spine approaches. 	<ol style="list-style-type: none"> 8. Compare the salient points of spinal surgery that apply to orthopedic and neurologic procedures. 	
<p>Week 11 Chapter 39</p>	<p>Lecture Video Canvas Read Chapter 39 Ophthalmic Surgery Discussion Quiz Chapter 39 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss the Care of the Ophthalmic Surgical Patient. 2. Identify special instrumentation and equipment. 	<ol style="list-style-type: none"> 1. Identify the pertinent anatomy of the eye and surrounding structures. 2. Describe the procedures performed on the eye for glaucoma. 3. Discuss the advantages and disadvantages of intraocular lens implantation. 	<p>Ophthalmic</p>

	<ol style="list-style-type: none"> 3. Review Ophthalmic drugs (Mydriatic and Miotic, Local and Topical Anesthesia, and Solutions. 4. Discuss Extra/Intra Ocular Surgical procedures. Dacryostorhinostomy, Enucleation, Corneal Transplant Refractive (Keratoplasty) Keratectomy. Phacoemulsification, and Vitrectomy. 5. Discuss eye injuries, and lasers. 	<ol style="list-style-type: none"> 4. Describe the actions of mydriatic and mitotic drugs. 	
<p>Week 12 Chapter 40</p>	<p>Lecture Video Canvas Read Chapter 40 Plastics and Reconstructive Surgery Discussion Quiz Chapter 40 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss features of Plastic and Reconstructive surgery. 2. Review Tissue grafting, and types of skin and tissue grafts. 3. Discuss Head and Neck Plastic and Recon. Procedures (Blepharoplasty, Rhinoplasty, Abdominoplasty) 4. Review Surgery of the Breast (Augmentation Mammoplasty, Reconstructive Mammoplasty) 	<ol style="list-style-type: none"> 1. Identify pertinent anatomy of the integumentary system. 2. List four primary reasons for plastic surgery. 3. Differentiate autografts, allografts, and xenografts. 4. Discuss the importance of fluid balance tin the burn patient. 	<p>Plastic and Reconstructive</p>

	5. Classify Burns, and care of the burn Patient.		
Week 13 Chapter 41	<p>Lecture Video Canvas Read Chapter 41 Otorhinolaryngologic and Head and Neck Surgery Discussion Quiz Chapter 41 Friday 11:59 Close Sunday 11:59</p> <ol style="list-style-type: none"> 1. Discuss general considerations in ear, nose and throat procedures. Identify structures of the ear (External, Middle, Inner) and Physiology of hearing. 2. Review Surgical Procedures (Mastoidectomy, Tympanoplasty) 3. Discuss Nasal Cavity Procedures (Septoplasty, Caldwell-Luc, Sphenoidotomy, Endoscopic Sinus Surgery, FESS) 4. Review the Oral Cavity and Throat Procedures (Parotidectomy, Glossectomy, Uvulopalatopharyngoplasty, Total Laryngectomy, Tracheotomy and Tracheostomy. 5. Explain Surgical Procedures of the Anterior Neck (Thyroid Procedures, Radical Neck Dissection). 6. Discuss Procedures of the Face and Skull (Midfacial 	<ol style="list-style-type: none"> 1. Identify the anatomy of the ear, nose and throat. 2. Describe the care of the patient having an otorhinolaryngologic procedure. 3. List the main types of hearing loss and the treatments. 4. Discuss the psychologic effects of head and neck surgery. 5. List the precautions of caring for the patient with a tracheostomy. 	Otorhinolaryngology

	Fractures Le Fort I/II, Maxillofacial and Mandibular Procedures.		
Week 14 Chapter	Lecture Video Canvas Read Chapter 42 Thoracic Surgery Discussion Quiz Chapter 42 Friday 11:59 Close Sunday 11:59	1. Identify the anatomy of the Thoracic Cavity. 2. Describe patient positioning for each type of thoracic incision.	Cardiothoracic
	1. Identify anatomy and physiology of the Thorax. 2. Review special features of Thoracic surgery (Mediastinoscopy, Pectus Excavatum Decortication) 3. Discuss Thoracic incisional Approaches (Posterior/ Anterolateral Thoracotomy, Thoracoabdominal, Sternotomy) 4. Review Thoracotomy procedures (Lobectomy, Pneumonectomy) 5. Discuss Chest Trauma (Blunt and Penetrating) and Esophageal Procedures. (Esophagectomy, Hiatal Hernia) 6. Review Complications of Thoracic Surgery.		
Week 15 Chapter 43-44	Lecture Video Canvas Read Chapters 43 Cardiac Surgery 44 Vascular Surgery Discussion	1. Identify the pertinent anatomy of the heart and great vessels. 2. List the types of conduits used for	Cardiothoracic Peripheral Vasculi

**Quiz Chapters 43-44 Friday
11:59 Close Sunday 11:59**

1. Discuss the anatomy of the Heart and Great Vessels, and Physiology of the Heart.
 2. Identify general considerations for Cardiac Surgery. (Incisions, Hemodynamic Monitoring)
 3. Discuss Cardiopulmonary Bypass system, and Complications.
 4. Explain Cardiac Surgical Procedures Aortic Valve Replacement, CABG, Cardiac transplant (pg.943-945) w/ Lung
 5. Discuss Mechanical Assisted Devices (Pace Maker, VAD)
 6. Discuss Pediatric cardiac procedures (pg.148 Coarctation of the Aorta, Patent Ductus Arteriosus, Tetralogy of Fallot.
 7. Review Complications of Cardiac Surgery.
 8. Explain the anatomy and physiology of the vascular system (Arterial, Venous, Capillary Anatomy)
 9. Review Diagnostic procedures (invasive and noninvasive)
- coronary artery bypass grafting.
 3. Describe the function of a cardiac pacemaker.
 4. Identify anatomy of the peripheral vascular system.
 5. Describe the potential complications associated with peripheral vascular disease.
 6. List the differences in aneurysms and their treatment,
 7. Discuss the vascular access options of hemodialysis.

	<p>10. Identify Vascular grafts, and conservative interventional techniques (PTA, stents and grafts, Thrombectomy and Embolectomy)</p> <p>11. Discuss Vascular Surgical Procedures (Arterial bypass, Femoropopliteal bypass, Carotid Endarterectomy, Open AAA, Endovascular repair of AAA, AV Shunts and Fistulas.</p>		
Finals Week	<p>Final 235 Chapters Cumulative</p> <p>Friday 5-8 at 8am - Close</p> <p>Sunday 5-10 11:59</p> <p>End Surg 235</p>		

SCHEDULE IS SUBJECT TO CHANGE.

Evaluation	Chapter	Due Date
Quiz 1	23-24	TBA
Quiz 2	26-27	TBA
Quiz 3	28-29	TBA
Quiz 4	30-31	TBA
Quiz 5	33	TBA
Quiz 6	34	TBA
Quiz 7	35	TBA
Quiz 8	36	TBA
Quiz 9	37-38	TBA
Quiz 10	39	TBA
Quiz 11	40	TBA
Quiz 12	41	TBA
Quiz 13	42	TBA
Quiz 14	43-44	TBA

Final	Cumulative	
Discussion Board		Every Sunday
Lab/Skills		

Program Handbook

Provided upon acceptance into Program

Technical Support

Technical support is available through the San Juan College Help Desk 24/7/365. The help desk can be reached at 505-566-3266 or by creating a ticket at [San Juan College Help Desk](#).

For password reset and Canvas support, visit the [Student Technology Guide](#) website.

Accessibility/Privacy Policies for all Technology Tools Used

[Accessibility/Privacy Policies for all Technology Tools Used](#)

Student Support

At San Juan College, we are committed to supporting your academic success and overall well-being. We recognize that college life can be challenging and stressful, impacting both learning and personal health. We are here to help you succeed.

Academic Support and Resources

We provide a range of academic support services to help you stay on track on your educational journey. Free resources include tutoring, computer loans, life skills workshops, and so much more. Visit the [Academic Support and Resources](#) webpage to learn more about support and resources available through Academic Advising, the Tutoring Center, the Student Resource Center (formerly Student Achievement Center) and the Testing Center.

Student Support and Resources

If you or someone you know could benefit from counseling, accessibility services, career exploration, veteran transitional assistance, or any of our other support services, visit the [Student Support and Resources](#) webpage where you'll find detailed information about various resources available to you as an SJC student.

We encourage you to take advantage of these free resources to enhance your college experience and ensure your success.

College Policies and Resources for Current Students

The [Student Handbook](#) provides information on student support, student organizations, and student conduct policies at San Juan College.

The San Juan College catalog outlines the [Academic Policies](#) students need to know.

Healthy and Safe Practices for Being on Campus

We want a healthy and safe campus for students, faculty, staff, and guests.

Contagious diseases and your responsibility:

If you have COVID-19 symptoms, fever, flu or even the common cold, you should stay home. Do not come to campus if you are feeling sick. Contact your instructor about missing class (and review your instructor's policies on missed or late work). Being sick does not necessarily excuse you from completing your work on time.

Safety on campus and your responsibility:

If you are on campus and experience or witness an emergency, call 9-1-1 first and then the Department of Public Safety at 505-566-3333 (or just 3333 if calling from a campus phone).

When you are on campus, be aware of your surroundings. If you need an escort to your vehicle, call 505-566-4444 (DPS non-emergency line) or 505-215-3091 (officer on duty line).

The College will send information for campus emergencies through SJC AlertAware, email and the webpage. Stay informed and stay safe.

Inclement Weather Information

Students will receive notification of class delays and cancellations due to inclement weather via the SJC AlertAware and SJC student email. Face-to-face classes will not meet in person; however, students

are advised to check with instructors about alternative meeting options, as some may choose to meet via zoom. Hybrid classes will meet as scheduled via zoom. For questions regarding your class delay or cancelation, please contact your instructor.

Online Course Fee

Online Courses - San Juan College requires all online courses to include some form of assessment to demonstrate the mastery of course objectives. This could include exams, capstone projects, e-portfolios, presentations, final papers or other appropriate assessments. The use of a proctoring platform, plagiarism detection software or other method to ensure that assessments are completed by the enrolled student is required.

A course fee of \$5.00 is assessed for all online courses at San Juan College to cover the cost of the above services. Students who are required to take a proctored exam and choose to use a physical testing center outside the SJC Testing Center or SJC Disability Services will be responsible for the cost of using that center.