

SURG-116 FOURTH LEVEL OF SURGICAL TECHNOLOGY

6 CREDITS

SYLLABUS

CATALOG DESCRIPTION

Students will learn instrumentation & equipment used in Cardiac & Pulmonary Surgery. They will learn the difference in the physiology of the Pediatric patient. They will also be able to identify & select proper instrumentation and equipment for Neurological procedures. They will do some practicum to compliment this course.

Prerequisites: Acceptance into the Surgical Technology Program. HITP 110, BIOL 224, BIOL 252, BIOL 253, ENGL111, ENG 211 or 218, COMM 110 OR 111, MATH 114 or higher, PSYC 120, SURG 110, 112, & 114

Semester Offered: SPRING SEMESTER

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

COURSE LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to:

SPECIFIC LEARNING OBJECTIVES

1. Recognize the relevant anatomy and physiology of the musculoskeletal system.
2. Summarize the pathology of the musculoskeletal system that prompts surgical intervention and the related terminology.
3. Determine any preoperative orthopedic diagnostic procedures/tests.
4. Determine any special preparation related to orthopedic procedures.
5. Indicate the names and uses of orthopedic instruments, equipment, and supplies.
6. Determine the intraoperative preparation of the patient undergoing an orthopedic procedure.
7. Summarize the surgical steps of the orthopedic procedures.
8. Interpret the purpose and expected outcomes of the orthopedic procedures.
9. Recognize the immediate postoperative care and possible complications of the orthopedic procedures.
10. Recognize the relevant anatomy of cardiovascular and respiratory systems.
11. Summarize the pathology that prompts cardiac or thoracic surgical intervention and related terminology.
12. Determine any special preoperative diagnostic procedures/test for the patient undergoing cardiac or thoracic surgery.
13. Determine any preoperative preparation procedures.
14. Indicate the names and uses of cardiovascular and thoracic equipment, instruments, and supplies.
15. Summarize the surgical steps of the cardiac and thoracic procedures.
16. Interpret the purpose and expected outcomes of the cardiac and thoracic procedures.
17. Recognize the immediate postoperative care and possible complications of the cardiac and thoracic procedures.
18. Assess any specific variations related to the preoperative, intraoperative, and postoperative care of the patient undergoing a cardiac or thoracic procedure.
19. Recognize the relevant anatomy of the peripheral vascular system.
20. Summarize the pathology that prompts surgical intervention of the peripheral vascular system and related terminology.
21. Determine any special preoperative peripheral vascular diagnostic procedures.
22. Determine any special preoperative preparation procedures.
23. Indicate the names and uses of peripheral vascular instruments and supplies.
24. Indicate the names and uses of special equipment.
25. Determine the intraoperative preparations of the patient undergoing peripheral vascular procedures.
26. Summarize the surgical steps of peripheral vascular procedures.
27. Interpret the purpose and expected outcomes of peripheral vascular procedures.
28. Recognize the immediate postoperative care and possible complications of peripheral vascular procedures.
29. Assess any specific variations related to the preoperative, intraoperative, and postoperative care of the patient undergoing peripheral vascular surgery.
30. Recognize the relevant and physiology of the neurological system.
31. Summarize the pathology that prompts surgical intervention of the neurological system and the related terminology.
32. Determine any special preoperative neurological diagnostic procedures/tests/
33. Indicate the names and uses of neurosurgical instruments, supplies and drugs.
34. Indicate the names uses of special equipment related to neurosurgery/
35. Determine the intraoperative preparation of the patient undergoing a neurosurgical procedure.
36. Summarize the surgical steps of the neurosurgical procedures.
37. Interpret the purpose and expected outcomes of the neurosurgical procedures