***This is a SouthArk Master Syllabus. The course syllabus distributed by the instructor may include additional requirements, must be followed by the student in the given term, and is considered to supersede the Master Syllabus.***

**Course Number**
SURG 1206

**Course Title**
Perioperative Technique and Procedures

**Course Description**
This course is a continuation of SURG 1106 with study of advanced principles and techniques of surgical procedures. Topics included but not limited to are aseptic technique and infection control practices; duties of the circulator and scrub technologist; advanced instrumentation and suture materials; wound healing and hemostasis; preoperative, intraoperative, and postoperative care; diagnostic procedures and tests; basic overview of biomedical sciences including electricity, physics, and robotics; overview of endoscopic procedures and techniques; and surgical complications.

**College Mission**
South Arkansas Community College promotes excellence in learning, teaching, and service; provides lifelong educational opportunities; and serves as a cultural, intellectual, and economic resource for the community.

**College Wide Student Learner Outcomes**

☒Critical Thinking ☒Responsibility ☒Communication

**ACTS Course**☐ **Program Course** ☒ Surgical Technology

**ACTS Outcomes**

**Program Outcomes**

1. Collaborate professionally with patients, their significant others and with all members of the healthcare team (Affective).
2. Promote interest, pride, and concern in the well-being of the community and its citizens through their contributions as surgical technologists (Cognitive, Affective, Psychomotor).
3. Practice clear effective communication skills, both written and non-written (Psychomotor, Affective).
4. Facilitate a teamwork atmosphere, that is responsive to and centers on the surgical patient's needs (Cognitive, Affective, Psychomotor).
5. Examine and incorporate the Association of Surgical Technologist scope of practice guidelines, rules, regulations, and ethical standards in the practice of surgical technology (Cognitive, Affective).
6. Demonstrate proficiency of learned scientific principles and integrate these concepts in the practice of safe competent care for the consumer (Cognitive, Affective, Psychomotor).
7. Prepare competent entry–level surgical technologist in the cognitive, psychomotor, and affective learning domains.
8. Support professional certification and life-long learning through continuing education to improve knowledge and skills performance (Cognitive, Affective, Psychomotor).

**Course Outcomes**

| CLO # | Course Outcomes | Unit Outcomes/ Competencies | ACTS | Program Outcomes | Critical Thinking | Communication | Responsibility | Assessment |
|---|---|---|---|---|---|---|---|---|
| CLO 1 | Performs (self) the duties of the Surgical Technologist in the scrub role, circulating role, and second assisting. [Cognitive – Knowledge, comprehension, and evaluation. Affective – Responding, receiving, and organization.] | 1-40 | | 1-8 | | C-1 | | Practicum II Evaluation Tool: 1-23 Perioperative Technique and |

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Procedures Skills Lab |
| CLO 2 | Distinguishes key elements related to anatomy and physiology, microbiology, and the mechanisms of wound healing and wound complications, as it relates to surgical care.[Cognitive – Knowledge, comprehension, and analysis] | 1-4,6,10-12,18-24,29,32-40 | | 4-7 | | C-1 | | Practicum II Evaluation Tool: 2, 5, 8, 11, 13, 15, 17, 19 Perioperative Technique and Procedures Skills Lab |
| CLO 3 | Displays appropriate key elements of standard precautions and infection control measures. [Cognitive – Knowledge, comprehension, and application. Psychomotor – Utilizing imitation, manipulation following oral or written directions and finally precision (independent performance] | 1-5,8,10-12,18-20,27-29,31-34,38-40 | | 3-7 | | | R-2 | Practicum II Evaluation Tool: 8, 11, 13, 15, 17, 18, 19 Perioperative Technique and Procedures Skills Lab |
| CLO 4 | Considers the principles of surgical fundamentals such as aseptic technique, storage and handling of sterile supplies, sterilization and disinfection efficiently and safely. [Cognitive–Knowledge, comprehension, and evaluation]. | 1,3-5,8-12,18-20,29,32-34,39,40 | | 1-7 | CT-1 | | | Practicum II Evaluation Tool: 4-19 Perioperative Technique and Procedures Skills Lab |
| CLO 5 | Assembles appropriate equipment for assigned procedure setup. Organizes a comprehensive pre-case supply and equipment check including orthopedic equipment, dermatomes, tourniquets, suction units, endoscopes, microscopes, cryotherapy units, electrosurgical units, irrigation/aspiration units, laser equipment, monitors, and emergency equipment. [Cognitive–Knowledge. Psychomotor–Utilizing imitation, manipulation following oral or written directions, and finally precision independent performance.] | 1,3-10,25-33,35,37-40 | | 3-7 | CT-1 | | | Practicum II Evaluation Tool: 2, 3, 4, 18 Perioperative Technique and Procedures Skills Lab |
| CLO 6 | Identifies, manipulates and manages instruments (classifications), sutures, needles, catheters, drains, surgical packing and dressings, and other types of specialty supplies and equipment with precision. [Cognitive – knowledge, application. Psychomotor -Utilizing imitation, manipulation following oral or written directions, and finally precision (independent performance).] | 1,3-5,8-10,18-20,25-34,39,40 | | 1-7 | CT-1 | | | Practicum II Evaluation Tool: 2, 4-19, 21, 22 Perioperative Technique and Procedures Skills Lab |

**Unit Outcomes/ Competencies**

1. Compare and contrast intentional, unintentional, and incidental/chronic wounds.
2. Analyze the mechanisms of wound healing, the inflammatory process, and the healing process.
3. Evaluate the classification of surgical wounds, analyze factors that influence healing, and devise a plan to prevent postoperative wound infections.
4. Demonstrate basic wound care concepts and apply the principles of asepsis to the practice of sterile technique.
5. Identify the various tissue layers of the abdominal wall.
6. Describe the advantages and disadvantages of incision types.
7. Discuss the advantages and disadvantages of incision types.
8. Analyze the principles of hemostasis.

9. Differentiate among various methods of hemostasis.
10. Assess special techniques of hemostasis.
11. Demonstrate surgical technologists' role in hemostasis.
12. Compare and contrast the types and characteristics of various catheters and drainage devices.
13. Correlate the correct drainage device for each drain.
14. Compare and contrast the conceptual differences between gravity and vacuum drainage.
15. Prepare catheters and drains for intraoperative use.
16. Prepare anchoring devices for drains.
17. Evaluate the purposes of surgical dressings.
18. Evaluate the purposes of surgical dressings.
19. Analyze their importance to postoperative wound care.
20. Compare and contrast the most commonly used types of surgical and specialty dressings.
21. Describe the importance of proper surgical dressing application techniques.
22. Apply proper principles of sterile technique and demonstrate the application of commonly used types of surgical specialty dressings.
23. Describe tissue replacement materials.
24. Demonstrate knowledge of biological wound cover materials.
25. Demonstrate advanced knowledge in the identification and preparation of supplies used in the OR.
26. Analyze and assess the factors that influence the closure of each wound layer.
27. Compare and contrast suture materials, suture sizing and suture coatings and analyze their significance.
28. Demonstrate proper suture selections, preparation, handling and cutting techniques.
29. Diagram and describe needle points and needle bodies and demonstrate the proper placement, handling, loading, and disposal of surgical needles.
30. Evaluate various applications of surgical stapling instruments and demonstrate proper assembly of stapling instrumentation.
31. Compare and contrast reusable and disposable surgical stapling instruments and analyze the advantages and disadvantages of utilizing surgical staplers.
32. Compare and contrast biological adhesives and synthetic adhesives.
33. Analyze and evaluate various tissue repair and replacement materials.
34. Describe the advantages and disadvantages of the repair and replacement materials.
35. Discuss the specific applications of synthetic mesh.
36. Understanding the relationship between technology and medicine.
37. Describe the importance of atoms, molecules, elements, and matter.
38. Describe the elements of motion.
39. Discuss different types of energy.
40. List the properties of waves.
41. Describe the principles of light.
42. Discuss the methods of heat transfer and how they relate to patient safety.
43. List and describe the properties of sound.
44. Describe the principles of electricity and electrical flow.
45. Demonstrate electrical knowledge as it relates to patient safety.
46. Discuss the advantages and constraints of minimally invasive surgery (MIS).
47. Describe the preparation of the patient for MIS.
48. Describe the function of each component of the imaging equipment used in MIS.
49. Discuss the care of a rigid endoscope.
50. Describe the surgical technique used for insufflation in laparoscopy.
51. List the risks associated with insufflation.
52. Describe the trocar-cannula system used in all MIS.
53. Describe the specific electrosurgical risks of direct and capacitative coupling.
54. Describe the structure and function of a flexible endoscope.
55. Discuss the proper protocol for processing rigid and flexible endoscopes.
56. Describe the robotic terms as related to surgery.
57. Describe the surgical applications of robotics.
58. Identify the basic components of equipment used in robotic surgery.
59. Describe the movements of the robotic system manipulators.
60. Apply the principles of robotics to patient safety.
61. Describe the proper procedure for taking the patient's vital signs.
62. Accurately document vital sign measurements.
63. Describe the use of an electrocardiograph.
64. List and define commonly used imaging studies.
65. Discuss basic blood and urine chemistry tests.
66. Describe different methods of tissue biopsy.

67. Describe the effects of malignancy on the body.
68. Discuss cancer screening.

**Assessment Description(s)**
Student will be evaluated through assignments, quizzes, and exams as well as in the laboratory setting based on skills performance and given a percentage grade based on each skill check-off and all other assignments given in the lab.

Student will be evaluated in the clinical setting based on skills performance.

**Materials and Technological Requirements**
Surgical Technology: Principles and Practice; Fuller 6th Edition; Elsevier
Surgical Technology: Principles and Practice Work Book; Fuller 6th Edition; Elsevier
Alexander's Care of The Patient in Surgery; 15th Edition; Elsevier
Differentiating Surgical Equipment and Supplies; 2nd Edition; F.A. Davis
Differentiating Surgical Instruments; 2nd Edition; F.A. Davis

**Class Attendance Policy**
Students are expected to attend all classes in which they are enrolled. If a student is absent from a class session, it is the student's responsibility to make arrangements to complete or make up any work missed. No make-up work for missed classes will be allowed without the approval of the instructor. Students who enroll late must assume all responsibility for work missed. Classes not attended as a result of late enrollment may be counted toward excessive absences. Students not attending the entire class period may be counted absent for that period. An instructor may drop students with a grade of "WE" if students have been absent for an excessive number of days. Warning letters will be sent to the students advising them of the consequences of nonattendance and urging them to contact their instructors immediately. Excessive absences are defined as follows:

**Regular Semester**
Courses which meet once a week ..... 2 absences
Courses that meet twice per week ..... 3 absences
Courses that meet four times per week ..... 5 absences

**Summer Session**
Courses that meet four times per week in a five week session ..... 3 absences
Courses which meet two evenings per week in a 10 week session ..... 3 absences

Students enrolled in special programs or individualized instruction should contact their program director/instructor regarding specific attendance requirements for the program/course. Some of the selective-admission, health-science programs have specific criteria regarding attendance. Students are encouraged to refer to program policies in these matters.

<u>Jury Duty/Military/Official School Function</u>
Scheduled absences are those that occur due to college-related activities or as a result of summons to jury duty or military duty. Classes missed as a result of scheduled absences will not be counted as excessive absences if the instructor is notified and provided documentation prior to the absence(s). Make-up work for scheduled absences will be at the discretion of the instructor.

In all instances, documentation must be provided to the instructor within 24 hours of receipt. Documentation should come from an appropriate party on letterhead or other official stationery with a signature and contact information. Documentation should list the corresponding dates of the leave.

<u>Medical leave</u>
For medical-related absences, documentation must include written notice from the treating medical professional documenting time needed off related to medical reasons and time student may resume classes. The medical reason does not need to be listed on the documentation; the documentation must include only that there is a medical reason, the amount of time the student needs to be absent, and the time the student should be able to return to classes. Students who elect to work at home while on excused leave must meet with their instructors to make arrangements to do so. Working on coursework while on medical leave is not a requirement but can be requested by students. If students request that they be allowed to work at home while on an excused leave, the instructor will make every reasonable effort to ensure that the student is able to do so.

For students who have a medical condition necessitating time off or accommodation:

1) They may work at home on assignments if they choose to if on medical leave approved by a medical professional

2) Receive appropriate accommodations related to coursework (i.e., excused from labs with potentially harmful chemicals, have a larger desk, etc.)
3) Resume their studies where they left off once they return to classes
4) Be allowed to make up any missed work related to medical leave
5) Receive incompletes on their transcripts until coursework is completed, according to the incomplete grade contract.
6) Be given a reasonable time frame in which to complete missed coursework

**Academic Honesty Policy**
Students enrolled at South Arkansas Community College are expected at all times to uphold standards of integrity. Students are expected to perform honestly and to work in every way possible to eliminate academic dishonesty. Academic dishonesty includes cheating and plagiarism, which are defined as follows:

- Cheating is an attempt to deceive the instructor in his/her effort to evaluate fairly an academic exercise. Cheating includes copying another student's homework, class work, or required project (in whole or in part) and/or presenting another's work as the student's own. Cheating also includes giving, receiving, offering, and/or soliciting information on a quiz, test, or examination.

- Plagiarism is the copying of any published work such as books, magazines, audiovisual programs, electronic media, and films or copying the theme or manuscript of another student. It is plagiarism when one uses direct quotations without proper credit or when one uses the ideas of another without giving proper credit. When three or more consecutive words are borrowed, the borrowing should be recognized by the use of quotation marks and proper parenthetical and bibliographic notations.

If, upon investigation, the instructor determines that the student is guilty of cheating or plagiarism, the following penalties will apply:

- The student will receive a penalty of no less than a zero on the work in question.
- The instructor will submit a written report of the incident to the Vice President for Learning
- The Vice President for Learning will determine whether further disciplinary action will be taken.
- All decisions may be appealed for review through the college's Academic Appeals procedure.

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**Equal Opportunity-Affirmative Action Statement**
South Arkansas Community College does not discriminate on the basis of age, race, color, creed, gender, religion, marital status, veteran's status, national origin, disability, or sexual orientation in making decisions regarding employment, student admission, or other functions, operations, or activities.

**Library Services**
Library Homepage: http://southark.libguides.com/homepage Library Contact: LibraryStaff@southark.edu or 870.864.7115

**Procedures to Accommodate Students with Disabilities:**
If you need course adaptions or accommodations because of a disability, please report this to the Vice President of Student Services with proper documentation. VPSS Contact: 870.875.7262

**The Early Alert System**
In an effort to ensure student retention and success, South Arkansas Community College employs an Early Alert System to identify and support at-risk students as soon as possible in a given semester. The intent of Early Alert is to provide this assistance while there is still time to address behaviors or issues that have the potential of preventing students from completing their courses and degree plans. Students referred through the Early Alert System will be required to work on a corrective action plan with their student advising coach and to include attendance accountability and mandatory academic tutoring either in the academic division or in the Testing and Learning Center (TLC).

Once the Student Advising Coach has met with the referred student, and again when the student has met the prescribed corrective actions, the coach will update the Early Alert System so that the instructor is kept informed of the progress in resolving issues.

**Behavioral Review Team**

At South Arkansas Community College (SouthArk), we are committed to proactive leadership in student wellbeing and campus safety. By focusing on prevention and early intervention with campus situations that involve any person experiencing distress or engaging in harmful or disruptive behaviors, the BRT will serve as the coordinating hub of existing resources to develop intervention and support strategies and offer case management. Students, faculty, staff, and campus guests are encouraged to report any person on campus who is a concern. BRT Contact: 870.875.7262 BRT@southark.edu

**Date of Revision: 8/25/2016**