SUR 200T.01: Operating Room Techniques

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UNIVERSITY OF MONTANA-MISSOULA  
COLLEGE OF TECHNOLOGY  
SURGICAL TECHNOLOGY DEPARTMENT  

COURSE SYLLABUS  

COURSE NUMBER AND TITLE:  SUR 200T Operating Room Techniques  

DATE REVISED:  Fall 2006  

SEMESTER CREDITS:  5  

CONTACT HOURS PER SEMESTER:  45  
   Lecture hours per week:  5  

PREREQUISITES:  SUR 101T, SUR 102T, SUR 154T and concurrent enrollment in SUR 202T  

INSTRUCTOR NAME:  Debbie Fillmore CST RN MEd  

E-MAIL ADDRESS:  debbie.fillmore@mso.umt.edu  

PHONE NUMBER:  243-7860  

OFFICE LOCATION:  Room:  AD 07  
   Administration Building  
   College of Technology-East Campus  

OFFICE HOURS:  Monday, Tuesday 3-5pm; Wednesday, Thursday, 9-11am;  
   Friday 10-12pm and by appointment  

RELATIONSHIP TO PROGRAM:  

Upon completion of this course, the student will be able to correlate the knowledge and understanding of more complex entry level surgical technologist skills. SUR 200 provides the knowledge base that correlates with SUR 202 Surgical Procedures Lab II. The knowledge gained will enable the student to successfully complete the unit exams and matriculate to more advanced Surgical Technology coursework.  

COURSE DESCRIPTION:  

SUR 200T Operating Room Techniques discusses the more complex responsibilities and competencies of the surgical technologist and related nursing procedures in both the scrub and circulator roles.
STUDENT PERFORMANCE OUTCOMES:

Upon completion of this course, the learner will:
1. Describe the physical preparation and care that the surgical patient may receive prior to the surgical procedure.
2. Evaluate the items on the preoperative patient checklist.
3. State the purposes of proper identification.
4. Describe the identification process for a surgical patient admitted to the surgical department.
5. Identify the methods of patient transportation.
6. Describe the principles of safe transportation for each of the aforementioned methods.
7. Analyze laboratory reports in relationship to patient diagnosis and interventions.
8. Describe the methods of reviewing a patient chart for completeness.
9. Discuss methods of patient transfer.
10. Identify equipment utilized for safe transfer of the surgical patient.
11. Assess the standards and policies to promote patient satisfaction in the perioperative setting.
12. Develop a plan to educate patients regarding the anticipated recovery process.
13. Evaluate the common sources of documentation utilized in the operating room.
14. Judge the importance and impact of proper documentation.
15. Discuss the use, components, and aides utilized to achieve various surgical positions.
16. Describe the basic surgical positions.
17. Describe the homeostatic parameters monitored in the OR setting.
18. Contrast and compare different types of skin preparations.
19. Contrast and compare different chemical agents used for skin preparation.
20. Describe the steps and rationales for surgical skin preparation.
21. List the indications for urinary catheterization.
22. Discuss the basic considerations for urinary catheterization.
23. List the supplies required to perform urinary catheterization.
24. Describe the steps in performing urinary catheterization.
25. Discuss the principles of monitoring urine output.
26. Compare and contrast the types and characteristics of various catheters and drainage devices.
27. Describe the preparation of catheters and drains for intraoperative use.
28. Describe various types of draping material used in surgical procedures.
29. Describe the general principles of draping the patient and any necessary equipment and furniture.
30. Analyze the principles of hemostasis.
31. Differentiate among various methods of hemostasis.
32. Analyze the factors that influence the closure of each wound layer.
33. Compare and contrast suture materials, suture sizing and suture coatings.
34. Describe proper suture selection, preparation, handling and cutting techniques.
35. Diagram and describe needle points and needle bodies.
36. Describe handling, loading and disposal of surgical needles.
37. Analyze various tissue repair and replacement materials and assess the advantage and disadvantages of utilizing repair and replacement materials.
38. Interpret the specific applications of synthetic mesh, synthetic tissue replacement materials and biological wound cover materials.
39. Analyze the classifications of surgical wounds.
40. List surgical procedures that fit the various classifications of surgical wounds.
41. Compare and contrast intentional, unintentional and incidental/chronic wounds.
42. Analyze the mechanisms of wound healing, the inflammatory process and the healing process.
43. Evaluate the purposes of surgical dressings.
44. Compare and contrast the most commonly used types of surgical and specialty dressings.
45. Describe proper principles of sterile technique in the application of commonly used types of surgical and specialty dressings.
46. Explain the necessity of each of the following components of anesthesia preparation of the surgical patient: assessment, monitoring devices, positions for induction, thermoregulatory devices, intravenous access.
47. Describe emergency procedures carried out in the OR setting.
48. Define specimen.
49. Assess methods of obtaining specimens.
50. Describe the handling of tissue specimens.
51. Identify types of containers.
52. Describe the procedure for specimen labeling and transfer to appropriate department.
53. Discuss successful practices in providing culturally-sensitive healthcare to a variety of diverse clients.
54. Discuss basic components related to robotics.
55. List the clinical applications of robotics and computer applications in the OR.
STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

Student grades are determined after careful judgment of each assignment against a set of criteria, as indicated for each unit. The majority of your grade will be determined from unit exams, but you may also be asked to do student presentations and written assignments. There will be a final exam.

Written assignments will be double-spaced and typed or printed on a letter-quality printer and are due during class on the assigned day. Late assignments are accepted with one letter grade deducted for each late day. Note that each written assignment includes careful evaluation of the quality of writing.

The evaluation process includes:

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<tr>
<th>Component</th>
<th>Percentage of Total Grade</th>
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<tbody>
<tr>
<td>Unit Exams</td>
<td>60%</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
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<tr>
<td>Paper</td>
<td>15%</td>
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<td>100%</td>
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Excellent work earns a point value between: 93-100 A Grade
Good work earns a point value between: 86-92 B Grade
Fair work earns a point value between: 80-85 C Grade

Any final grade determination of less than 80% will result in failure of the course.

A Surgical Technology student must pass all required SUR courses with an 80% or will not be allowed to continue in the program and will need to re-apply for admission. As stated in The University of Montana catalog “any single course may be attempted a maximum of two times only”.

Please note: If a student does not successfully complete any required course or is out of sequence for any reason, it will be necessary to reapply to the program. Also a student will be required to repeat SUR 102T, Surgical Procedures Lab I, prior to admission to the program.

Instructions for Semester Paper

Choose a topic of interest related to surgical technology or surgery in the 21st century. Give me your topic in writing no later than Monday, October 2, 2006. Research and expand upon the subject in a type written paper, double spaced and 3 to 4 pages in length. Use 12 pt font and one inch top and bottom margins. Students will present these papers to fellow classmates during class on Tuesday, November 21 and Tuesday, November 28.

The purpose of the presentation is to instruct fellow students, provide opportunity for discussion and to gain confidence in presenting ideas and information. Please send me an electronic copy the Monday before your presentation is due. This paper is to include references and a bibliography page in addition to the 3 to 4 pages.
Papers will be graded for content, interest and attention to detail, correct grammar and punctuation. Plagiarism will not be tolerated; if you are quoting a source you must reference it. Papers found to be plagiarized will be reduced by 20 points. Use of previous papers written by a student and turned in as new material will be considered plagiarized and will receive 0 points.

ATTENDANCE POLICY:

- Attendance and participation are valued in this course. Therefore, class attendance will be taken. Prompt and regular attendance will be expected in order to meet course objectives. **Students are expected to notify the instructor prior to class if unable to attend or if student will be arriving late.**

- Students may be asked to furnish a physician’s statement regarding an absence. The student is responsible for gathering any information or course materials he or she may have missed due to absence or tardiness.

- Repeated absences will result in completion of a “Student Contract”. A student’s final grade may be decreased 1 percentage point for each absence. **Example:** final grade = 94% (A); student has two absences; final grade = 92% (B).

- If a student misses an exam the make-up test will be administered in the Academic Support Center (ASC) and must be completed the day the student returns to campus. The student will need to call the ASC (243-7826) and schedule a time to take the exam.
  
  **If the instructor has not been notified prior to the absence, the instructor may allow no make-up to be administered.**

- Chronic car problems, finances, jobs or job interviews are not valid excuses for missing class.

- Tardiness will not be tolerated. It is disruptive to fellow students. Repeated tardiness will result in completion of a “Student Contract”. The student’s final grade may be decreased 1 percentage point for each tardy attendance.

- Each case is considered by the instructor on an individual basis. It is up to the discretion of the instructor whether or not a student is meeting course objectives.

- Your course of instruction should be your highest priority.
OTHER POLICIES:

Instructional Notes

Students may engage in classroom discussions, small group cooperative learning activities and student presentations. Other teaching techniques to be utilized include: lecture, use of computer and video applications and guest presentations. Students will be expected to be prompt for class and well-prepared to participate appropriately in discussion and activities. **Assigned readings are to be read prior to class.**

As I teach, I try to be aware of the special needs of individuals as well as the needs of the group. If you require some accommodation, I encourage you to discuss that with me. Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please make an appointment to discuss possible arrangements. Please be prepared to provide a letter from your DSS Coordinator. For students planning to request testing accommodations, be sure to bring the form to me in advance for scheduling in the ASC.

Please make use of my office hours, even if only over the telephone, to discuss questions you may have about particular assignments or the course content in general. You may also want to correspond with me through e-mail if this fits your schedule better.

**Students must practice academic honesty.** Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. Academic misconduct is defined as all forms of academic dishonesty, including but not limited to:

1. Plagiarism
2. Misconduct during an examination or academic exercise
3. Unauthorized possession of examination or other course materials
4. Tampering with course materials
5. Submitting false information
6. Submitted work previously presented in another course
7. Improperly influencing conduct
8. Substituting, or arranging substitution, for another student during an examination or other academic exercise
9. Facilitating academic dishonesty
10. Altering transcripts, grades, examinations or other academically related documents

**The University of Montana-Missoula Student Conduct Code**

All students need to be familiar with the Student Conduct Code for The University of Montana. The Code is available for review online at:

http://www.umt.edu/SA/VPSA/index.cfm/page/1321
REQUIRED TEXTS:

Surgical Technology: Principles and Practices; 4th ed
Author: Fuller
Publisher: Elsevier/Saunders

Workbook to accompany: Surgical Technology: Principles and Practices
Author: Fuller
Publisher: Elsevier/Saunders

Introduction to Operating Room Techniques
Author: Berry/Kohn
Publisher: Mosby

Instrumentation for the Operating Room
Author: Brooks
Publisher: Mosby

Alexander’s Care of the Patient in Surgery
Author: Meeker/Rothrock
Publisher: Mosby

AORN Standards of Practice
Author: AORN
Publisher: AORN

Pocket Guide to the Operating Room
Author: Goldman
Publisher: Davis

Instrument Pocket Guide
Author: Wells
Publisher: Elsevier/Saunders

OTHER COURSE MATERIALS:

Three-ring notebook to accommodate course materials.
Computer and online access for course materials and assignments.

Expenses:

- AST Student Membership $45
SUR 202T - COURSE OUTLINE:

Unit I Care of the Surgical Patient in the Preoperative Period
A. Patient physical preparation
B. Patient checklist
C. Patient identification
D. Transportation
E. Review of the chart
F. Patient transfer
G. Discharge Planning
I. Documentation

Unit II Preoperative Patient Care Concepts I
A. Patient positioning
B. Homeostasis
   1. Vital signs
   2. Hemodynamics
   3. Monitoring
   4. Thermoregulatory devices
C. Documentation

Unit III Preoperative Patient Care Concepts II
A. Skin prep
B. Urinary catheterization
C. Catheter and Drains
D. Draping
E. Documentation

Unit IV Intraoperative Patient Care Concepts I
A. Wound classification
B. Wound healing
C. Surgical dressings

Unit V Intraoperative Patient Care Concepts II
A. Hemostasis
B. Tissue approximation

Unit VI Anesthesia Concepts
A. Assessment
B. Monitoring devices
C. Positioning for induction
D. Thermoregulatory devices
E. Intravenous access
F. Emergency procedures
Unit VII  Postoperative Patient Care Concepts/Special Issues
A. Specimen care
B. PACU
C. Postoperative case management
D. What Language Does Your Patient Hurt In?

Unit VIII  Technological Sciences for the Operating Room
A. Review of Basic Computer Knowledge
B. Electricity for the Surgical Technologist
C. Physics for the Surgical Technologist
D. An Introduction to Robotics
I have read the syllabus for SUR 200 Operating Room Techniques. I understand the requirements of me and the evaluation process of the course.

Student Signature ________________________________________________

Date ___________________________________________________________________ 8/06