SUR 195T.50: Safe Patient Care and Operating Room Techniques - Great Falls

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COURSE NUMBER AND TITLE:  SUR 195.5-GF  Safe Patient Care and Operating Room Techniques  
(Previously referred to as: SURG 102 Surgical Patient Care)

DATE REVISED:  2006

SEMESTER CREDITS:  5

CONTACT HOURS PER SEMESTER:  Online

PREREQUISITES:  AH 108, AH 145, AH 194, BIO 107, COMM 135, ENGL 120 & 121, MATH 101

REQUIRED SKILL:  CS 110 Introduction to Computers  OR  Challenge Exam

CO-REQUISITE:  SURG 104 Surgical Technology Lab

INSTRUCTOR NAME:  Debbie Fillmore CST RN MEd

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

PHONE NUMBER:  406-243-7860

OFFICE LOCATION:  AD 07
The University of Montana College of Technology
909 South Avenue W
Missoula MT  59801

OFFICE HOURS:  Monday, Tuesday, 2-5pm; Wednesday, Thursday, 9-11am; Friday 10-12pm

RELATIONSHIP TO PROGRAM:

Upon completion of this course, the student will be able to correlate the knowledge and understanding of (entry-level) surgical technologist skills. This course provides the knowledge base that correlates with SUR 104 Surgical Technology Lab. This knowledge will enable the student to complete the competency profile in SUR 104 (scrub and circulator skills) and successfully matriculate to more advanced knowledge coursework and skill level.

COURSE DESCRIPTION:

This course prepares students for the scrub and circulator roles of surgical technology, emphasizing the competencies involved, as well as the responsibilities of the surgical technologist.

STUDENT PERFORMANCE OUTCOMES:

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

1. Trace the historical development of surgery
2. Discuss various health care settings and their delivery of care.
3. Identify hospital departments that relate to the surgical department in providing quality patient care.
4. Identify factors that affect his/her personal life including current lifestyle, accountability for actions and obligations and types of stress, their causes and methods of coping.
5. Identify and demonstrate principles of communication and their importance in the surgical setting.
6. List and explain the impact of professional organizations, etc. relevant to OR practice.
7. Identify and interpret a job description for a surgical technologist.
8. Identify members of the surgical team and their roles.
9. Define and interpret ethical, moral and legal responsibilities.
10. Identify various aspects of the physical environment of the surgical department including the physical layout, the operating room equipment and environmental safety issues.
11. Understand the purpose for the “case cart” method of case preparation.
12. Identify the various elements of surgical attire and their importance.
13. Discuss the concepts of asepsis and describe their application.
14. Identify and describe the physical and chemical methods used to protect patients and workers from invasion by pathogenic microbes.
15. Identify principles and describe techniques of disinfection and antisepsis.
16. Identify basic instruments by type, function and name and will describe care, handling and assembly.
17. Define surgical conscience and identify its application in relation to the surgical patient and all principles of surgical asepsis.
19. Describe techniques of opening and preparing supplies and instruments needed for any operative procedure, with maintenance of asepsis at all times.
20. Explain the process of the surgical scrub, gowning and gloving.
21. Identify the rights of health care consumers to receive quality patient care.
22. Realize the advanced technologies in today’s operating room:
   a. identify the name and function of various parts of the compound microscope
   b. identify the basic components of a computer system
   c. discuss the basic concepts, components and mechanisms related to a robotics system
   d. define terms applicable to physics in the OR
STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

Student grades are determined after careful judgement of each assignment against a set of criteria, as indicated for each assignment. The majority of your grade will be determined from unit exams. On those exams that include short answer or essay responses, the grade may be lowered if spelling, punctuation and sentence structure is not that of university level.

The student will also have assignments throughout the semester that will be posted on the Discussion Board. You will be expected to submit your assignments by a given deadline date and time.

There will be two Virtual Classroom meetings throughout the course. Attendance is mandatory and contributions are required and graded. Virtual Classroom is not designed to be a “chat room”. If you choose to make it so, you will be graded accordingly.

You will be required to email me once a week. Your email should reflect on your understanding or your questions regarding that week’s reading assignments.

Your email contact is expected to be professional and courteous. Make sure your spelling, punctuation and sentence structure is that of university level.

The evaluation process includes:

1. Unit Exams 60% of total grade
2. Final Exam 25%
3. Discussion Board Assignments 10%
4. Required Weekly Email 5%

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 course.

Because SURG 102 and SURG 104 (lab) run concurrently, if a student fails SURG 102, SURG 104 must be repeated also.

ATTENDANCE POLICY:

- Please refer to the MSU-GF COT Surgical Technology Program.

- Attendance and participation are valued in this course. Therefore, class attendance will be taken if discussion board meetings are scheduled. **Students are expected to notify the instructor** (406-243-7860) or by email (debbie.fillmore@mso.umt.edu) **prior to class if unable to attend or if student will be joining the discussion 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 = 93% (A); student has two absences; final grade = 91 (B)%

• If a student misses an exam, the make-up test will have to be arranged with the lab faculty. The exam will need to be completed by the next day returning to campus. No make-up exam may be taken after five days.

• 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

Exams for this course will be paper-pencil and not online. You will take them in a proctored setting on a day and time scheduled. The exams are mailed to me for correction. It is important for students to receive feedback on exams. Therefore corrected exams are mailed back to you within ten days.

Students may engage in online discussions, small group cooperative learning activities and student presentations. Other teaching techniques to be utilized include, use of computer and video applications and guest presentations. Assigned readings are to be read prior to virtual classroom or discussion board meetings.

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.

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. 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

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


Disruptive or rude behavior may initiate a “Student Contract”. Each time a contract is initiated will result in a 5 point deduction of the final grade.

**REQUIRED TEXTS:**

**Introduction to Operating Room Techniques, 10th Edition**  
Author: Berry/Kohn  
Publisher: Mosby

**Surgical Technology Principles and Practice, 4th Edition**  
Author: Fuller  
Publisher: Mosby

**Instrumentation for the Operating Room**  
Author: Brooks  
Publisher: Mosby

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

**Microbiology for the Surgical Technologist**  
Author: Price  
Publisher: Delmar
REFERENCE TEXTS/PUBLICATIONS:

Taber’s Cyclopedic Medical Dictionary  
Publisher: FA Davis

Drug Guide for Nurses  
Publisher: Mosby

Clinically Oriented Anatomy, 4th Edition  
Publisher: Mosby

Subscription to The Surgical Technologist (AST) publication

OTHER COURSE MATERIALS:

Three ring notebook to accommodate course materials and emails.

SUR 102 - COURSE OUTLINE:

I. Orientation to Surgical Technology  
A. The perioperative learner  
   1. The adult learner  
   2. What are objectives?  
B. The perioperative caregiver  
   1. Personal attributes  
   2. Patient advocacy  
C. History of Surgery  
D. The surgical technologist – “Aeger Primo”  
   1. Education  
   2. Standards of practice  
   3. Clinical competency  
   4. Credentialing and professional organizations  
   5. Role in the surgical setting  
E. Members of the OR team and their individual roles  
F. Hospital organization  
G. Realities of clinical practice  
   1. Reality shock  
   2. Stress reduction

II. The Surgical Technologist and the Surgical Patient  
A. Teamwork  
B. Communication  
C. Legal issues  
D. Ethical issues  
E. The surgical patient – the reason for our existence  
   1. Recommended practices for patient care  
      a. Assessment of physical, spiritual and psychological needs  
      b. Assessment of cultural and religious needs  
      c. Identification of potential sources of anxiety and fear  
      d. Patient and family response to hospitalization and surgical intervention
Identify specific needs of pediatric, geriatric and immunocompromised patient populations
2. The Patient Bill of Rights
3. Consent forms
4. Advance Directives and Living Will
F. Forms of documentation used in the OR
F. Surgical conscience

III. Physical Environment and Safety Issues
A. Ambulatory surgery
B. Surgical department (suite)
   1. Principles of layout
   2. Proper OR attire
   3. Operating room
   4. OR equipment
   5. Gases/Tank colors
   6. Case cart system/custom packs
   7. Principles of design and layout
   8. Cleaning procedures
   9. Traffic patterns
C. Care of the perioperative environment
D. Environmental hazards
   1. JCAHO
   2. Risk Management
   3. CQI
F. Universal/standard precautions

IV. Microbiology in the OR
A. Principles of surgical asepsis
B. Process of infection
C. Sources of contamination
D. General defense mechanisms
E. Sterilization processes
F. Disinfection and antisepsis
G. Sterilization monitoring devices/methods
H. Operating Room Sanitation

V. Case Management
A. Principles of surgical asepsis
B. Preliminary preparations
   1. Organize room
   2. Gather equipment
   3. Check case cart and place packs on appropriate furniture
C. Division of duties
D. Opening sterile supplies
E. Surgical scrub
F. Gowning and gloving
G. Preparation of supplies
   1. Opening basic pack
   2. Arranging basins
   3. Draping mayo stand
VI. Surgical Instrumentation I
A. Classification
   1. Cutting and dissecting
   2. Clamping and occluding
   3. Grasping and holding
   4. Retracting and exposing
B. Care and handling
C. Passing instruments
D. Assembling minor sets

VII. Case Preparation and Intraoperative Techniques
A. Preparation of case
   1. Arranging mayo stand
   2. Arranging back table
B. Sponge, sharps and instrument counts
C. Intraoperative techniques
   1. Starting a procedure
   2. Receiving sterile items from circulator
   3. Breaking down a sterile field
I have read and I understand the contents of the syllabus for course SUR 195.01 Safe Patient Care and Operating Room Technique.

Student Signature ________________________________

Date__________________