MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty is required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. Surgical Technology COURSE NUMBER: 1130

NUMBER OF CREDITS: 4 (4/0)

COURSE TITLE: Operating Room Theory

CATALOG DESCRIPTION:
This course will enable students to function as an essential part of the medical team providing surgical care to patients in an operating room setting. Students will study the total operating room environment, which includes preoperative, intraoperative and postoperative care. The principles of electricity, physics, Lasers, computers and Robotics will be covered. Emphasis will be placed on the principles of aseptic technique.

AUDIENCE: Surgical Technology Students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area: by meeting the following competencies:
Area: by meeting the following competencies:
Area: by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:
Concurrent with SURG 1110

LENGTH OF COURSE: 4 hours per week for 16 weeks

THIS COURSE IS USUALLY OFFERED:
Every other year [ ] fall [ ] spring [ ] summer [ ] undetermined

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. The student will be able to identify the roles of the surgical team within the operating room and the proper chain of command within the team.
b. The student will be able to define terms related to asepsis, identify sources of contamination, and be able to demonstrating the ability to perform the duties of a surgical technologist while maintaining sterility.
c. Understand the principles of physics, electricity, and robotics.

2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
a. Studying the interaction between essential roles of the operating room team and the impact they have on patient care/outcomes.
b. Practical application in a laboratory setting of the utilization of aseptic techniques.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through learning to have dialogue with peers using the terms and definitions of the roles and conditions in the operating room

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through interactions with the other members of the ‘healthcare team’ in a laboratory setting

TOPICS TO BE COVERED:
1. Development of Surgery
2. Health Care Facilities and Organization
3. Hospital Organization and Management
4. Health Agencies
5. Accrediting Agencies
6. The Surgical Team Members
7. Personal and Professional Relations
8. Job Seeking skills
9. Identifying Aspects of the Physical Environment in a Surgical Suite
10. Interdepartmental Relations
11. Communication, Rapport and Leadership
12. Asepsis and the Surgical Environment
13. Surgical Conscience
14. Sterilization
15. Disinfection and Antisepsis
16. Understanding the Surgical Patient
17. Physical, Spiritual, and psychological needs
18. Surgical Consent
19. Preoperative Routines
20. Patient Identification
21. Transportation of the Surgical Patient
22. Transfer and Positioning of the Surgical Patient
23. Patient Bill of Rights
24. General Concepts of Pathophysiology
25. Disease and Disorders of Body Systems
26. Physics, Robotics, Computers, LASERs, Endoscopy and Electricity
LIST OF EXPECTED COURSE OUTCOMES:

1. Trace the historical development of surgery.
2. Identify different types of health care facilities and state how they differ from each other.
3. Demonstrate an understanding of the purpose and management of the hospital.
4. Discuss various agencies and their effect on health delivery.
5. Describe procedures for accrediting hospitals and educational programs.
6. Identify and interpret a job description for a surgical technologist.
7. Identify members of the surgical team and their roles.
8. Identify factors that affect his/her personal life.
9. List and explain the impact of professional organizations and other materials relevant to or practice.
10. Apply for employment and demonstrate qualities needed for retention of a job.
11. Identify the aspects of the physical environment of the surgical suite.
12. Identify hospital departments that relate to the surgical suite in providing quality patient care.
13. Identify and demonstrate principles of communication and leadership and their importance in the surgical setting.
14. Discuss the concepts of asepsis and demonstrate their applications.
15. Define surgical conscience and identify its application in relation to the surgical patient and all principles of asepsis.
16. Identify principles and demonstrate techniques of sterilization, sterile storage, and distribution.
17. Identify principles and demonstrate techniques of disinfection and antisepsis.
18. Assess the patient’s response to illness and hospitalization.
19. Assess the physical, spiritual, and psychological needs of a patient.
20. Demonstrate an understanding of the process used to obtain an informed consent for a surgical procedure or treatment.
22. Describe the identification process for surgical patients.
23. Identify, describe and demonstrate the principles of transportation of surgical patient.
24. Discuss, demonstrate, and apply the principles of transfer and surgical positioning.
25. Discuss methods and types of documentation used in the operating room.
26. Identify the rights of health care consumers to receive quality patient care.
27. Understand general pathological concepts to include cell pathology, tumors, infection and disease that upset homeostasis.
28. Define and identify diseases and disorders of each body system, including the diagnostic tests used for identification of the disease.

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Problem Solving
- Student Presentations
- Interactive Lectures
- Creative Projects
- Individual Coaching
- Lecture
- Films/Videos/Slides
- Other (describe below)
- Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Tests
- Individual Projects
EXPECTED STUDENT LEARNING OUTCOMES:

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

The information in this course outline is subject to revision

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or via your preferred Telecommunications Relay Service.

A Member of the Minnesota State Colleges and Universities System
An Affirmative Action Equal Opportunity Educator/Employer

4/14