

Montgomery County Community College
SUR 205
Surgical Technology III
10-6-16

COURSE DESCRIPTION:

This course is designed to build on the knowledge gained in SUR 105 and SUR 106. Fundamental team skills in the environment of the operating room are applied to various specialties of surgery. Patient, equipment, and supply preparation are demonstrated in the following types of surgeries: genitourinary, cardio-thoracic, vascular, and orthopedic. The patient preparation, instrument and equipment set-up and assembly are demonstrated. The actual procedural stages for each basic surgery within the specialties are presented and reinforced in the clinical setting. The concurrent clinical laboratory and site experience afford the student the opportunity to directly apply didactic information. The patient profile is also discussed with consideration given to age specific needs during the surgical intervention. Response to death and dying in the operating room is introduced with exploration of various coping strategies. Co-morbidities are described. Employment skills and interview techniques are addressed with development of a professional resume.

REQUISITES:

Previous Course Requirement

- SUR 106 Surgical Technology II

Previous or Concurrent Course Requirements

- ENG 102 English Composition II OR ENG 115 Writing for Technical Communication OR ENG 117 Writing for Business/Industry

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Demonstrate, written and verbally, proper use of medical terminology with a focus on the specialty surgeries addressed in the course.	Oral and Written Presentation of Case Study Reading/Assignments/ Case Studies Assignments/Written Experiences Paralleling Clinical Experience Research Resources Clinical Practice	Written Exams/Quizzes Discussion/Written Assignments Capstone Project/Oral Presentation Clinical Performance

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
2. Differentiate the role and expectations of the Surgical Technologist within the operative team while delivering care to the patient having the following specialty surgeries: genitourinary, cardio-thoracic, vascular, and orthopedic.	Lecture with Visuals/ Discussion Reading/Assignments Role Playing/Simulation in the Operating Room Learning Lab Clinical Practice Professional Resources	Written Exams/Quizzes Discussion/Written Assignments Clinical Performance
3. Define the accountability and environmental requirements of the Surgical Technologist in caring for specialty surgical patients.	Lecture with Visuals/ Discussion including AV/Multimedia Materials Reading/Assignments Role Playing/Simulation in the Operating Room Learning Lab Clinical Practice	Written Exams/Quizzes Discussion/Written Assignments Clinical Performance
4. Integrate and apply aseptic technique in preparing the patient for surgery while demonstrating use of specialty instruments, equipment, and sterile supplies for the listed specialty surgeries.	Lecture with Visuals/ Discussion including AV/Multimedia Materials Reading/Assignments Demonstration/ Role Playing/Simulation in the Operating Room Learning Lab Clinical Practice Professional Resources	Written Exams/Quizzes Discussion/Written Assignments Return Demonstration with Validation Clinical Performance
5. Prioritize and organize the surgical field for the listed specialty surgeries considering the urgency of patient care.	Lecture with Visuals/ Discussion including AV/Multimedia Materials Reading/Assignments/ Case Studies Demonstration/ Role Playing/Simulation in the Operating Room Learning Lab Clinical Practice	Written Exams/Quizzes Discussion/Written Assignments Return Demonstration with Validation Clinical Performance

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
6. Correlate the anatomy and physiology of the specialties listed to the procedural stages for the surgical interventions.	Lecture with Visuals/ Discussion including AV/Multimedia Materials Assignments/Written Experiences/Case Studies Paralleling Clinical Experience Clinical Practice	Written Exams/Quizzes Discussion/Written Assignments Clinical Performance
7. Evaluate co-morbidities for potential complications in each age group.	Lecture with Visuals/ Discussion including AV/Multimedia Materials Reading/Assignments Assignments/Written Experiences/Case Studies Paralleling Clinical Experience Clinical Practice	Written Exams/Quizzes Discussion/Written Assignments Clinical Performance
8. Compare and contrast attitudes, beliefs, coping strategies and professional applications regarding death and dying in the surgical environment.	Lecture with Visuals/ Discussion including AV/Multimedia Materials Reading/Assignments Role Playing/Simulation in the Operating Room Learning Lab Clinical Practice	Written Exams/Quizzes Discussion/Written Assignments Clinical Performance
9. Analyze current employment trend data and apply employment-seeking skills in order to secure employment.	Lecture with Visuals/ Discussion Assignments/Resume Construction	Resume Submission to Potential Employers

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria*.

SEQUENCE OF TOPICS:

1. Orientation
2. Course Specific Medical Terminology
 - A. Combining Prefixes, Word Root & Suffixes to Create Medical Terms Related to Surgery
 - B. Constructing & Combining Compound Words
 - C. Pronunciation of Medical Terms Related to Surgery
 - D. Writing Medical Terms Related to Surgery

3. Open and Minimally Invasive Cardio-Thoracic Surgery
 - A. Anatomy & Relationship to Each Procedure
 - B. Instruments, Set Up, Counting
 - C. Equipment for Each Procedure
 - D. Procedural Stages for Each Surgical Intervention
 - E. Potential Complications
4. Open and Minimally Invasive Genitourinary Surgery
 - A. Anatomy & Relationship to Each Procedure
 - B. Instruments, Set Up, Counting
 - C. Equipment for Each Procedure
 - D. Procedural Stages for Each Surgical Intervention
 - E. Potential Complications
5. Cardiovascular & Peripheral Vascular Surgery
 - A. Anatomy & Relationship to Each Procedure
 - B. Instruments, Set Up, Counting
 - C. Equipment for Each Procedure
 - D. Procedural Stages for Each Surgical Intervention
 - E. Potential Complications
6. Orthopedic Surgery
 - A. Anatomy & Relationship to Each Procedure
 - B. Instruments, Set Up, Counting
 - C. Equipment for Each Procedure
 - D. Procedural Stages for Each Surgical Intervention
 - E. Potential Complications
7. Age Specific Patient Surgical Needs
 - A. Infancy Developmental Needs
 - B. Toddler Developmental Needs
 - C. Pre School Developmental Needs
 - D. School Age Developmental Needs
 - E. Teenager Developmental Needs
 - F. Young Adult Developmental Needs
 - G. Middle Age Developmental Needs
 - H. Elder Developmental Needs
8. Death & Dying
 - A. Co-Morbidities for Potential Complications in Each Age Group
 - B. Practical Methods of Coping with Death & Dying
 - C. Attitudes and Beliefs of Family Members Dealing with Death & Dying
 - D. Care of the Deceased Patient in the Operating Room
9. Employment Skills
 - A. Current Trends & Employment Opportunities.
 - B. Plan to Secure Employment & Professional Resume
 - C. Personal Employability & Employment Strategy Including Positive Characteristics
 - D. Employment Application & Correspondence
 - E. Interview Strategies

LEARNING MATERIALS:

Schroeder, C.L., Ehrlich, L., Schroeder-Smith, K., Ehrlich, A. (2021). *Medical Terminology for Health Professions* (9th ed.). Boston, MA: Cengage Learning.

Frey, K.B. (2018). *Surgical Technology for the Surgical Technologist: A Positive Care Approach* (5th ed.). Boston, MA: Cengage Learning.

Rothrock, J.C. & Alexander, S. M. (2012). *Alexander's Surgical Procedures*. (1st ed.). St. Louis, MO: Mosby Elsevier Inc.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Prepared by:	Beverly Siftar, RN, MSN, CNOR and Dr. Victoria L. Bastecki-Perez	Date:	1/2003
Revised by:	Erin White, MS, CST	Date:	1/2009
VPAA/Provost Compliance Verification:	Dr. John C. Flynn, Jr.	Date:	9/11/2009
Revised by:	Erin White-Mincarelli, Doctoral Candidate, MS, CST	Date:	5/2012
VPAA/Provost or designee Compliance Verification:	Victoria L. Bastecki-Perez, Ed.D.	Date:	5/30/2012
Revised by:	Erin White-Mincarelli, Doctoral Candidate, MS, CST	Date:	10/2012
VPAA/Provost or designee Compliance Verification:	Victoria L. Bastecki-Perez, Ed.D.	Date:	10/18/2012
Revised by:	Erin White-Mincarelli, PhD, MS, CST	Date:	9/12/2017
VPAA/Provost or designee Compliance Verification:	Victoria L. Bastecki-Perez, Ed.D.	Date:	11/7/2017
Revised by:	Erin White-Mincarelli, PhD, MS, CST, FAST	Date:	11/20/2023
VPAA or designee Compliance Verification:		Date:	11/29/2023



This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.