MOHAWK VALLEY COMMUNITY COLLEGE, UTICA-ROME, NY

Surgical Technology

COURSE OUTLINE

1. COURSE DESCRIPTION:

**ST141 Surgical Technology Skills and Procedures II** C-2, P-2 CR-3

This course provides the student with basic knowledge of surgical procedures. Topics include orthopedic, neurosurgery, plastic surgery, ophthalmic, cardiac, pediatric, thoracic, and vascular surgery. Previously learned and mastered skills will be integrated in this course. The student will be provided with hand-on experience in preparing the necessary surgical trays for these procedures and then practice following the steps involved in the surgical procedures from beginning to end.

**Prerequisites:** ST140 Surgical Technology Skills and Procedures 1, and BI217 Human Anatomy and Physiology 2, BI209 Basic Pathophysiology, and ST220 Sterile processing Clinical

**Corequisites:** ST230 Surgical Technology Clinical Practice 1, and ST109 Pharmacology for the Surgical Technologist

1. STUDENT LEARNING OUTCOMES

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

1. Describe the relevant anatomy and physiology of each surgical specialty.
2. Describe the pathology and related terminology of each surgical specialty.
3. Identify any preoperative diagnostic procedures and tests for each surgical specialty.
4. Demonstrate the use of surgical instruments, supplies, and drugs by surgical specialty.
5. Identify the names and uses of special equipment related to Orthopedics, Ophthalmic, Plastic and Reconstructive, Cardiothoracic, Peripheral Vascular and Neurosurgical surgery.
6. Define and give an overview to include the purpose and expected outcomes of basic procedures done in Orthopedics, Ophthalmic, Plastic Reconstructive, Cardiothoracic, Peripheral Vascular and Neurologic surgical specialties.
7. Describe the immediate postoperative care and possible complication of the core procedures of each specialty.
8. MAJOR TOPICS:
9. Orthopedic Surgery
   1. Surgical Anatomy
   2. Case planning
   3. Surgical Techniques
   4. Diagnostic Procedures
10. Plastic and Reconstructive Surgery
    1. Surgical Anatomy
    2. Case planning
    3. Surgical Techniques
    4. Diagnostic Procedures
11. Peripheral Vascular Surgery
    1. Surgical Anatomy
    2. Case planning
    3. Surgical Techniques
    4. Diagnostic Procedures
12. Thoracic and Pulmonary Surgery
    1. Surgical Anatomy
    2. Case planning
    3. Surgical Techniques
    4. Diagnostic Procedures
13. Cardiac Surgery
    1. Surgical Anatomy
    2. Case planning
    3. Surgical Techniques
    4. Diagnostic Procedures
14. Pediatric Surgery
    1. Surgical Anatomy
    2. Case planning
    3. Surgical Techniques
    4. Diagnostic Procedures
15. Neurosurgery
    1. Surgical Anatomy
    2. Case planning
    3. Surgical Techniques
    4. Diagnostic Procedures