Tulsa Technology Center 14-15 SY Course Syllabus

SURGICAL CASE MANAGEMENT
Course Syllabus

Course Number: HLTH-0145
OHLAP Credit: No
OCAS Code: None
Course Length: 120 Hours
Career Cluster: Health Science
Career Pathway: Therapeutic Services
Career Major(s): Surgical Technologist (Accredited Program)

Pre-requisite(s): Essentials of Surgical Asepsis, Introduction to Surgical Technology

Course Description: This course will introduce the student to the supplies and equipment that are an integral part of their training as a Surgical Technologist, including instrumentation, suture, sponges, drains, counts, and the sterile field and draping of sterile field. Upon completion of the course, the student will be able to demonstrate competency in using supplies and equipment in the surgical environment.

Textbooks:
- Surgical Technology Principles and Practice 5th Ed. by Joanna Kotcher Fuller, Elsevier Sanders (2013).
- Differentiating Surgical Equipment and Supplies, F. A. Davis (2010).

Online Resources: Blackboard

Course Objectives:
A. Demonstrate methods utilized to analyze and plan for the needs of the surgical case.¹
B. Assess the function, assembly, use and care of equipment in the surgical environment.¹
C. Describe the application of surgical equipment.¹
D. Identify specialty and accessory equipment used in surgery.¹
E. Describe the principles of electricity and electrical flow.¹
F. Demonstrate electrical knowledge as it relates to patient safety.¹
G. Identify the bio-physics and benefits of laser use.¹
H. Distinguish between the different types of laser systems.¹
I. Discuss important aspects of laser safety and laser safety checklist.¹
J. Demonstrate patient’s safety guidelines when using lasers.¹
K. Identify the classifications, names, parts, materials, finishes, and uses of basic surgical instrumentation.¹
L. Explain the relationship between instrument type and usage.¹
M. Apply knowledge of basic surgical instrumentation to specific surgical procedures.¹
N. Demonstrate the ability to properly utilize surgical instruments in a laboratory and clinical setting.¹
O. Select the instruments, supplies and equipment needed for a surgical procedure.¹
P. Describe the use of instruments and supplies.¹
Q. Analyze and assess the factors that influence the closure of each wound layer.¹
R. Compare and contrast suture materials, suture sizing and suture coatings and analyze
SURGICAL CASE MANAGEMENT

1. Demonstrate proper suture selection, preparation, handling and cutting techniques.1
2. Diagram and describe needle points and needle bodies and demonstrate the proper placement, handling, loading and disposal of surgical needles.1
3. Evaluate various applications of surgical stapling instruments and demonstrate proper assembly of stapling instrumentation.1
4. Compare and contrast reusable and disposable surgical stapling instruments and analyze the advantages and disadvantages of utilizing surgical staplers and ligating clips.1
5. Compare and contrast biological adhesives and synthetic adhesives.1
6. Analyze and evaluate various tissue repair and replacement materials.1
7. Describe the advantages and disadvantages of the repair and replacement materials.1
8. Discuss the specific applications of synthetic mesh.1
9. Distinguish between the different types and characteristics of surgical sponges.1

1 ODCTE Objective
All unmarked objectives are TTC instructor developed.

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures: 1. Students are graded on theory and lab practice and performance.
2. Each course must be passed with eighty (80%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.
4. Career Major grades established during coursework are a major criteria in successfully obtaining certification.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 3.0 or better.