SURGICAL CASE MANAGEMENT SKILLS
Course Syllabus

Course Number: STAP 0145B
OHLAP Credit: No
OCAS Code: None
Course Length: 90 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. Assess the function, assembly, use and care of equipment in the surgical environment.¹
B. Describe the application of surgical equipment.¹
C. Identify specialty and accessory equipment used in surgery.¹
D. Identify the classifications, names, parts, materials, finishes, and uses of basic surgical instrumentation.¹
E. Explain the relationship between instrument type and usage.¹
F. Apply knowledge of basic surgical instrumentation to specific surgical procedures.¹
G. Describe the use of instruments and supplies.¹
H. Analyze and assess the factors that influence the closure of each wound layer.¹
I. Compare and contrast suture materials, suture sizing and suture coatings and analyze their significance.¹
J. Diagram and describe needle points and needle bodies and demonstrate the proper placement, handling, loading and disposal of surgical needles.¹
K. Evaluate various applications of surgical stapling instruments and demonstrate proper assembly of stapling instrumentation.¹
L. Compare and contrast reusable and disposable surgical stapling instruments and analyze the advantages and disadvantages of utilizing surgical staplers and ligating clips.¹
M. Compare and contrast biological adhesives and synthetic adhesives.¹
N. Analyze and evaluate various tissue repair and replacement materials.¹
O. Describe the advantages and disadvantages of the repair and replacement materials.¹

¹ ODCTE Objective
All unmarked objectives are TTC instructor developed.

Teaching Methods: The class will primarily be taught by 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.

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.

In order to be eligible to progress to Surg Tech Clinical Practicum II and III, surgical technology students must maintain a “B” (80%) or better grade in all theory/clinical courses and clinical skills.

Laboratory Grading for Surgical Case Management:
- Skill Tests 15%
- Final Skill Tests 70%
- Laboratory Evaluations 15%

In order to progress throughout the course of study, the student must:
- Achieve a final grade of at least 80% in all theory/clinical courses and clinical skills tests.
- Mastery of all surgical skill competencies with no mistakes. Pop Quizzes/Tests may be given periodically and are not eligible for make-up.
- When a student fails to maintain a final grade of at least 80% in theory/clinical courses or on clinical skill tests, he/she must re-enroll in the course. Tuition will be assessed.
- A course or clinical may be retaken only one time.
- A student who fails the same course twice will be dropped from the program.
- A student who fails two separate courses, theory and/or clinical, will be dropped from the program.
- A student will only be allowed to change to another class/cohort one time.

In order for students to maintain clinical eligibility they must:
- Maintain a “B” (80%) or better in all theory/clinical courses and clinical skills.
- Provide current immunizations required by clinical partners.
- Have a current CPR card.
Skill Tests
Grading Information

1. All Skill Tests must demonstrate mastery of skill components with no mistakes to progress through the program.
2. Should the student not demonstrate mastery of the skill component on the first attempt, the instructor will conference with the student and create a remediation plan for the student and they will be placed on a probation contract. The student will have the opportunity to remediate with the instructor, and demonstrate mastery of the skill component.
3. If the student does not master the skill within a reasonable amount of time as determined by the instructor, they will be considered as making unsatisfactory academic progress. (STU-15)
4. Failure to achieve satisfactory academic progress may result in removal from the career major. (STU-15)
5. All Skill Tests have an allotted time frame for completion.
6. All Skill Tests must be passed with a cumulative grade of 80%.
7. If the Student makes below 80% cumulative grade the instructor will conference with the student and create a remediation plan for the student and they will be placed on a probation contract.
8. The student will have the opportunity to remediate with the instructor, and repeat the Skill Test once to achieve 80% cumulative grade or better.

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 Eligibility:
All Tulsa Tech students (high school and adult) may have the opportunity to receive college credit upon completion of their program. Our College Relations office will work with students regarding the benefits of Prior Learning Assessments (PLA) toward an Associate of Applied Science (AAS) degree or a technical college certificate at area colleges. For more details call the College Relations office at 918.828.5000.

Chapter Learning Objectives and Content Outlines

Instrumentation
Chapter Objectives:
- Perform basic passing techniques.
- Apply knowledge of instruments to surgical procedures

Content Outline:
- Parts of surgical instruments
- Composition and classification of instruments
- Identification of basic instruments
- Proper passing of instruments
- Laparoscopic instrumentation and equipment

Drains and Tubes
Chapter Objectives:
- Prepare catheters and drains for intra-operative use.
- Discuss anchoring devices for drains
Content Outline:

- Purpose and uses of wound drains, tubes, and catheters
- Catheter composition
- Catheter sizing
- Urinary catheters, uses and preparations
- Fogarty catheters
- Wound drain mechanisms
- Types of wound drains
- Wound Drain, Tubes, Catheter connectors
- Types of tubes and uses
- Insertions techniques
- Dressing
- Suture techniques/secure to skin

Sponges, Dressings, Packs, Counts

Chapter Objectives:

- Compare various surgical sponges.
- Evaluate the purposes of surgical dressings.
- Compare and contrast the most commonly used surgical dressings.
- Describe the importance of dressing application techniques.
- Demonstrate identification and counting procedures.
- Demonstrate application of surgical dressings.

Content Outline:

- Types of sponges/counted vs. uncounted
- Legal responsibilities/documentation
- Characteristics of sponges
- Sterile packaging of sponges
- Uses of sponges as pertains to surgical specialties
- Sterile surgical dressing application
- Sterile surgical dressing packaging
- Specialty dressings and ostomy bags
- Purpose of counts
- Techniques for counting as pertains to facility policies
- Timing of counts as pertains to surgical procedures
- Countable items
- Order of counts
- Count discrepancies
- Safety measures/handling soiled sponges
- Purpose of sterile packing
- Types of packing gauze
- Receiving sterile packing to sterile field

Sutures, needles, stapling devices

Chapter Objectives:

- Demonstrate proper loading of surgical needles.
- Demonstrate proper disposal of surgical needles.
- Demonstrate handling of gut suture.

Content Outline:

- Terms/Definitions
- Suture classifications
- Suture sub classifications
- Suture properties
- Suture sizing
- Suture description/packaging
SURGICAL CASE MANAGEMENT

- Preparing suture for use
- Principles in suture selection
- Suture ties
- Loading/passing suture ties to left and right handed person
- Loading/passing suture to left and right handed person
- Cutting suture
- Suturing Techniques
- Retention suture
- Accessory devices (vessel loops, tapes, buttons, etc.)
- Surgical Needle characteristics
- Needle components
- Needle classifications
- Needle applications
- Needle points
- French eye/Free needles
- Suturing Techniques
- Care and handling of suture/needles
- Types of surgical stapling devices
- Reusable vs. disposable
- Care and Handling of disposable stapling devices
- Disposable reloads
- Stapling Applications
- Ligating clips
- Clip Appliers
- Skin stapling devices
- Application/Removal of skin staples
- Tissue Adhesives
- Skin closure adhesive
- Skin closure tapes
- Purpose of tissue repair mesh
- Tissue repair mesh materials
- Handling of mesh materials

Preparation and Draping of the Sterile Field

Chapter Objectives:

- Select supplies needed for a surgical case.
- Assess and anticipate the needs of the surgical team
- Select the appropriate drapes for specific positions and procedures.
- Apply standard precaution to the performance of case management activities
- Demonstrate the duties of the assistant circulator including documentation
- Demonstrate techniques for preparing the sterile field.
- Demonstrate the aseptic principles of draping.
- Demonstrate postoperative case management duties in an organized manner.
- Demonstrate intraoperative duties of the surgical technologist.
- Demonstrate appropriate first assistant duties of the surgical technologist.

Content Outline:

- Composition of Drape Material
- Characteristics of Drape Material
- Types of drapes
- Specialty Drapes
- Purpose of Drapes
- Guidelines-Draping furniture using Sterile Technique
- Guidelines-Draping patient using Sterile Technique
- Sterile boundaries of drapes
- Lab demonstration, practice, testing apply/removal of sterile drapes
- Lab demonstration, practice, testing setting up sterile field, instrumentation, suture, preparing sterile dressing.
- Lab demonstration, practice, testing of procedural steps used for basic surgical procedure