

SURT-2300: SURGICAL SPECIALTIES

Cuyahoga Community College

Viewing: SURT-2300 : Surgical Specialties

Board of Trustees:

May 2025

Academic Term:

Fall 2025

Subject Code

SURT - Surgical Technology

Course Number:

2300

Title:

Surgical Specialties

Catalog Description:

Presentation and discussion of surgical specialty procedures including cardio/thoracic, genitourinary, neurological, ophthalmic, oral/maxillofacial, orthopedic, otorhinolaryngology, peripheral vascular and transplant and trauma surgical procedures.

Credit Hour(s):

5

Lecture Hour(s):

5

Requisites

Prerequisite and Corequisite

SURT-1921 Clinical Experience II, BIO-2341 Anatomy and Physiology II, BIO-2500 Microbiology and concurrent enrollment in SURT-2851 Clinical Experience III.

Outcomes

Course Outcome(s):

Distinguish the characteristics and features of surgical specialties; ophthalmic, otorhinolaryngology, oral/maxillofacial, genitourinary, orthopedic, cardio/thoracic, peripheral vascular, neurosurgery, transplant and trauma surgical procedures.

Objective(s):

1. Discuss relevant anatomy and physiology regarding surgical specialty procedures.
2. Identify the related pathologies corresponding to the surgical specialty procedures.

Course Outcome(s):

Recognize diagnostic intervention utilized to confirm specific types of pathology associated with surgical specialty procedures.

Objective(s):

1. Identify diagnostic exams performed to prepare the patient for surgical procedure.
2. Correlate preoperative tests performed to prepare the patient for surgical procedure.

Course Outcome(s):

Discuss and describe the basic case management skills associated with surgical specialty procedures.

Essential Learning Outcome Mapping:

Oral Communication: Demonstrate effective verbal and nonverbal communication for an intended audience that is clear, organized, and delivered effectively following the standard conventions of that language.

Objective(s):

1. Identify the options regarding surgical incisions available to perform the surgical specialty procedure.
2. Identify routine and specialty supplies that will be used during the surgical specialty procedure.
3. Correlate suture, medications, drains, equipment, and instrumentation with the steps of the surgical specialty procedure.
4. Discuss steps of selected surgical specialty procedures.
5. Correlate the process of counting instruments, sponges, needles, and other items on the sterile field with the preoperative, intraoperative and postoperative phases of the surgical specialty procedure.
6. Discuss appropriate dressing material to be used on the surgical wound.
7. Identify the proper procedure of specimen care related to the surgical specialty procedure.
8. Discuss the postoperative destination and postoperative care considerations of the patient.
9. Discuss the prognosis and complications related to the surgical specialty procedure.
10. Identify and discuss the rational of wound classification related to the surgical specialty procedure.
11. Identify and describe related surgical procedures.
12. Discuss special considerations related to surgical specialty procedures.
13. Discuss and identify the selection and administration of anesthesia related to surgical specialty procedure.
14. Apply the principles of surgical positioning to the surgical specialty procedure.
15. Discuss the steps of the surgical skin preparation for the surgical site.
16. Describe the appropriate surgical draping needed for the surgical specialty procedure.

Methods of Evaluation:

1. Examinations
2. Quizzes
3. Assignments
4. Case study presentation

Course Content Outline:

- A. Surgical Specialty Procedures
 1. Ophthalmic surgery
 2. Otorhinolaryngology
 3. Oral/maxillofacial surgery
 4. Genitourinary surgery
 5. Orthopedic surgery
 6. Cardiothoracic surgery
 7. Peripheral vascular surgery
 8. Neurosurgery
 9. Transplant surgery
 10. Trauma surgery
- B. Surgical Specialty Case Management
 1. Anatomy
 2. Physiology
 3. Pathophysiology
 4. Diagnostic Interventions
 - i. Diagnostic exams
 - ii. Preoperative testing
 5. Special considerations
 6. Selection and administration of anesthesia
 7. Surgical positioning
 8. Surgical skin preparation
 9. Surgical draping
 10. Surgical timeout
 11. Surgical incision options
 12. Specialty supplies

13. Sutures
14. Medications
15. Equipment and instrumentation
16. Surgical instrument inventory
17. Surgical procedural steps
18. Wound dressings
19. Specimen care
20. Postoperative destination and care
21. Prognosis and complications
22. Wound classification
23. Related surgical procedures.

Resources

Association of Surgical Technologists, et al. *Surgical Technology for the Surgical Technologist: A Positive Care Approach*. 6th ed. Boston: Delmar Publishers, 2024.

Venes, Donald, ed. *Taber's Cyclopedic Medical Dictionary*. 24th ed. Philadelphia: Davis, 2021.

Rutherford, Colleen J. *Differentiating Surgical Instruments*. 3rd ed. Philadelphia, PA: FA Davis, 2020.

Goldman, Maxine A. *Pocket Guide to the Operating Room*. 4th ed. Philadelphia: F.A. Davis, 2020.

Rothrock, J. C and Sherri Alexander. *Alexander's Surgical Procedures*. 1st ed. St. Louis, MO: Elsevier Mosby, 2012.

Pieknik, Rebecca. *Suture and Surgical Hemostasis*. 1st ed. St. Louis, MO: Elsevier Mosby, 2006.

Dankanich, Nancy. *Operating Room Skills*. 2nd ed. Upsaddle River, New Jersey: Pearson Education Inc., 2020.

Rutherford, Colleen J. *Surgical Equipment and Supplies*. 3rd ed. Philadelphia, PA: FA Davis, 2023.

Resources Other

[Association of Surgical Technologists. https://www.ast.org/ 2025.](https://www.ast.org/)

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