Course Information Form (CIF)

Course Code: SUR 254

Course Title: Surgical Specialties II

Department: Allied Health
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 51.0909
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 5-0-5
Credit Hour Distribution:

Lecture: 5	Lab: 0	Clinical: 0	**Total: 5**

General Course Information

Catalog Description

Anatomy, pathology, diagnostic procedures, special preoperative preparation, pharmacology, surgical specialty services; obstetrical, orthopedic, plastic, otological, nose and throat, ophthalmic, vascular, cardiothoracic, neurology, and oral and maxillofacial.

General Course Objectives

1. Apply medical terminology as it relates to each procedure.
2. Compare and contrast the approach for each procedure.
3. Review the anatomy and physiology for each procedure.
4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis.
5. Describe preoperative patient preparation and considerations for each procedure.
6. Discuss the operative sequence for each procedure.
7. Recognize the necessary supplies, instrumentation, and equipment for each procedure.
8. Evaluate the use of medications for each procedure.
9. Identify the wound classification for each procedure.
10. Discuss postoperative care, considerations, and potential complications for the surgical patient.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 060

Prerequisites

Credit in SUR 210, SUR 231, and SUR 232
Concurrent enrollment in SUR 273 and SUR 274
Admission into the Surgical Technology program

Methods of Evaluation

14-16 objective examinations and 10-12 in-class worksheets; cumulative final exam.

Instructional Materials and Additional Supplies

Surgical Technology Principles and Practice, Fuller, Elsevier, current edition
Alexander's Surgical Procedures, Rothrock and Alexander, Elsevier, current edition
Pharmacology for the Surgical Technologist, Howe and Burton, Elsevier, current edition

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Obstetrical Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient. 11. Define terminology related to obstetrics and labor and delivery. 12. Describe the four stages of labor by listing where each stage begins and ends related to the delivery process. 13. Describe the three phases of labor including the length of each phase and the physical and emotional changes that occur in each phase. 14. Discuss anesthesia methods for vaginal and cesarean births. 15. Describe the patient position, positioning, skin preparation, and draping for a vaginal delivery. 16. List the instruments and supplies needed for a vaginal delivery and describe their uses. 17. Define V-Bac. 18. Explain the three classifications of obstetrical forceps and conditions required for their use.	5	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Orthopedic Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient. 11. Describe and list instrumentation needed for a basic orthopedic Mayo stand setup. 12. Explain intraoperative routines in orthopedic surgery. 13. Describe the process for preparing polymethylmethacrylate (PMMA). 14. List the steps for applying a cast postoperatively. 15. Describe the types of casts, indications and precautions for use, application, and removal. 16. Describe types of fixation devices including screws, plates, rods, pins, wires, and cables. 17. Describe the types of traction and their uses. 18. Define external fixation and explain why it would be used for fracture repair.	15	0	0
Plastic and Reconstructive Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient. 11. Describe types of grafting used in plastic and reconstructive surgery. 12. Describe dressing materials and techniques used in plastic and reconstructive surgery.	5	0	0
Otological Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient.	5	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Nose and Throat Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient.	5	0	0
Ophthalmic Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient.	5	0	0
Vascular Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient. 11. Differentiate between synthetic grafts, autografts, and biografts. 12. Define terminology related to peripheral vascular surgery.	10	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Cardiothoracic Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient. 11. Describe the process for collecting and caring for specimens with a Lukens tube, Tru-cut biopsy needle, and biopsy forceps.	10	0	0
Neurosurgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient.	10	0	0
Oral and Maxillofacial Surgery	1. Apply medical terminology as it relates to each procedure. 2. Compare and contrast the approach for each procedure. 3. Review the anatomy and physiology for each procedure. 4. Discuss the diagnostic procedures and pathology used to obtain a diagnosis. 5. Describe preoperative patient preparation and considerations for each procedure. 6. Discuss the operative sequence for each procedure. 7. Recognize the necessary supplies, instrumentation, and equipment for each procedure. 8. Evaluate the use of medications for each procedure. 9. Identify the wound classification for each procedure. 10. Discuss postoperative care, considerations, and potential complications for the surgical patient.	5	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
75	0	0