



INSTRUCTIONAL PACKAGE

SUR 102

APPLIED SURGICAL TECHNOLOGY

SPRING 2018

201720

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: 201720

COURSE PREFIX: SUR 102

COURSE TITLE: APPLIED SURGICAL TECHNOLOGY

CONTACT HOURS: 5

CREDIT HOURS: 5

RATIONALE FOR THE COURSE:

This introductory level course is designed to continue the principles and application of case preparation, aseptic techniques, patient safety, medical legal aspects of the operating room, the perioperative role, supplies, equipment and instrumentation related to basic, intermediate and advanced surgical procedures.

COURSE DESCRIPTION:

This course covers the principles and application of aseptic technique, the perioperative role, and medical/legal aspects.

PREREQUISITES/CO-REQUISITES:

Credit level AHS 102 Minimum Grade of C or Credit level AHS 102 Minimum Grade of TC and Credit level AHS 126 Minimum Grade of C or Credit level AHS 126 Minimum Grade of TC and Credit level SUR 101 Minimum Grade of C or Credit level SUR 101 Minimum Grade of TC and Credit level SUR 103 Minimum Grade of C or Credit level SUR 103 Minimum Grade of TC and Credit level SUR 104 Minimum Grade of C or Credit level SUR 104 Minimum Grade of TC and Credit level SUR 111 Minimum Grade of C or Credit level SUR 111 Minimum Grade of TC

REQUIRED MATERIALS:

Textbooks:

*Surgical Technology for the Surgical Technologist: A Positive Care Approach 4th Ed. Delmar Cengage Learning, 2013 ISBN-13: 978-1-1110-3756-7

*Surgical Technology for the Surgical Technologist Study Guide 4th Ed. Delmar Cengage Learning, 2013 ISBN 978-1-1110-3758-1

Pocket Guide to the Operating Room 3rd Ed. F.A. Davis, 2008

Differentiating Surgical Instruments F.A. Davis, 2005 (ISBN: 978-0-8036-2545-7)

Differentiating Surgical Equipment and Supplies (ISBN 13:978-0-8036-1572-4)

LANGE Q&A Surgical Technology Examination 6th Edition ISBN 978-0-07-174576-5

Association of Surgical Technology Certifying Exam Study Guide - 3rd Edition Book, 2013 ISBN 978-0-926805-66-8 (Optional) (Suggested)

Please visit the Bookstore online site for most current textbook information. Use the direct link below to find textbooks.

[BOOKSTORE.](#)

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

ADDITIONAL REQUIREMENTS:

Lab Coat: white, ¾ length, embroidery; Horry-Georgetown Technical College Surgical Technology Student

Scrubs: Ceil blue, embroidery; Horry-Georgetown Technical College Surgical Technology Student

Shoes: White (tennis shoes are allowed) no clogs or open toes

CPR (BCLS) for health care provider

Safety Glasses/Goggles

Student ID to be worn in class and at clinical sites

X-RAY Badge

HGTC Lanyard (optional)

HGTC Lab Backpack

Lock (optional)

TECHNICAL REQUIREMENTS:

Each Student will need access to a compatible computer and or Lap Top

Every Student will need access to a Printer/Scanner

Access to Desire2Learn (D2L), HGTC's student portal for course materials.

WaveNet and D2L email access.

Attention HGTC Students:

The faculty and administration of HGTC are committed to enhancing your learning experience at the College through improved methods of instruction and support services. For information on Student Support Services or questions about your curriculum program please refer to your Wavenet Homepage.

CLASSROOM ETIQUETTE:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

Materials Covered:

Lecture	Surgical Technology for the Surgical Technologist: CH 13: Diagnostic Procedures CH 14: General Surgery CH 15: Obstetric and Gynecologic Surgery CH 18: Oral and Maxillofacial Surgery CH 20: Genitourinary Surgery CH 21: Orthopedic Surgery
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Lab:

Differentiating Surgical Instruments: CH 4: Urology Instruments CH 8: Ear, Nose, and Throat Instruments CH 9: Maxillofacial
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CH 10: Ophthalmologic Instruments
CH 11: Vascular, Thoracic, and Cardiac Instruments
CH 12: Plastic Instruments

*Assessment(s):

Lecture:

Homework/ Workbook Assignments

Chapter Tests

Cumulative Evaluation Exams

Lab:

Group Projects/Mock Surgery

Homework/Procedure prep

Competency Skills Evaluations

Chapter Tests

Cumulative Evaluation Exams

Learning Outcomes:

Lecture:

1. Apply knowledge of anatomy and physiology to determine which diagnostic examination will be useful
2. Indicate the sources of patient data
3. Compare and contrast techniques used to establish the diagnosis
4. Determine which diagnostic procedure will require surgical intervention
5. Recognize the relevant anatomy and physiology of the abdominal cavity
6. Summarize the pathology that prompts general surgical intervention and the related terminology
7. Determine any special preoperative diagnostic procedures/tests used prior to general surgery
8. Indicate the names and uses of general surgical instruments, supplies and drugs
9. Determine the intraoperative preparation of the patient undergoing a general procedure
10. Recognize the immediate postoperative care and possible complications of the general procedure
11. Recognize the relevant anatomy and physiology of the female reproductive system
12. Summarize the pathology of the female reproductive system and the related terminology
13. Determine any special preoperative Obstetric and Gynecologic diagnostic procedures/tests
14. Indicate the names and uses of Obstetric and Gynecologic surgical instruments, supplies and drugs
15. Determine the intraoperative preparation of the patient undergoing a Obstetric and Gynecologic procedure
16. Recognize the immediate postoperative care and possible complications of Obstetric and Gynecologic procedures
17. Recognize the anatomy and physiology to specific procedures in oral and maxillofacial surgery.
18. Summarize the pathology that prompts oral and maxillofacial surgery and the related terminology
19. Determine any special preoperative diagnostic procedures/tests pertaining to oral/maxillofacial surgery
20. Indicate the names and uses of oral and maxillofacial surgical instruments, supplies and drugs
21. Determine the intraoperative preparation of the patient undergoing oral and maxillofacial surgery
22. Recognize the immediate postoperative care and possible complications of oral and maxillofacial surgery

23. Recognize the anatomy and physiology of the Genitourinary system
 24. Summarize the pathology that prompts Genitourinary system surgical interventions and the related terminology
 25. Determine any special preoperative diagnostic procedures/tests pertaining to Genitourinary system
 26. Indicate the names and uses of Genitourinary system surgical instruments, supplies and drugs
 27. Determine the intraoperative preparation of the patient undergoing Genitourinary system surgical procedures
 28. Recognize the immediate postoperative care and possible complications of Genitourinary surgery
 29. Recognize the anatomy and physiology of the musculoskeletal system
 30. Summarize the pathology of the musculoskeletal system that prompts surgical interventions and the related terminology
 31. Determine any special preoperative diagnostic procedures/tests pertaining to musculoskeletal system
 32. Indicate the names and uses of orthopedic surgical instruments, supplies and drugs
 33. Determine the intraoperative preparation of the patient undergoing orthopedic surgical procedures
 34. Recognize the immediate postoperative care and possible complications of orthopedic surgery
- Lab:
1. Analyze the role of the STSR in caring for the surgical patient
 2. Verify preoperative routines that must be completed
 3. Demonstrate proper care, handling and assembly of instrument
 4. Differentiate the types of special equipment utilized in OR and practice and demonstrate proper care, handling techniques and safety
 5. Collect and prepare supplies used in the OR
 6. Associate the relationship between instrumentation equipment and supplies with quality patient care in the OR
 7. Demonstrate techniques of opening and preparing supplies and instruments needed for any operative procedure site and maintain sterile techniques at all times
 8. Demonstrate the proper techniques for the surgical hand scrub, gowning, gloving self and assisting team members
 9. Demonstrate the proper technique for preparing supplies and instruments on a sterile field
 10. Demonstrate and explain in detail the procedure for counting instruments, sponges, needles and other items on the sterile field
 11. Demonstrate safe practice in transferring drugs and solutions from the nonsterile area to the sterile field
 12. Demonstrate the precautions in identifying drugs and solutions in the OR and on the sterile field
 13. Demonstrate proper identification of patient and transport of the surgical patient
 14. Demonstrate proper transfer of patient from gurney to OR table and back.
 15. Summarize and demonstrate the methods of preparation of the operative site for surgery
 16. Demonstrate open gloving technique
 17. Apply and demonstrate the principles of surgical positioning
 18. Demonstrate the application of thermoregulatory devices.
 19. Interpret and demonstrate the principles and skills needed to take and record vital signs.
 20. Demonstrate urinary catheterization
 21. Demonstrate the initial steps for starting a procedure

22. Demonstrate intraoperative handling of sterile equipment and supplies
23. Summarize and demonstrate postoperative routines
24. Recognize general terminology and abbreviations associated with pharmacology and anesthesia
25. Assess the action, uses and modes of administration of drugs and anesthetic agents used in the care of the surgical patient
26. Recognize the side effects and contraindications for the use of drugs and anesthetic agents
27. Interpret the factors that influence anesthesia selection for individual patients
28. List the equipment used as an adjunct to anesthesia
29. Analyze how sterile technique is used in relation to certain anesthesia procedures
30. Compare and contrast the roles of the STSR and circulator during the administration of anesthetic agents
31. Recognize instruments by type, function and name
32. Interpret the basic concepts of robotics
33. Analyze the geometrical concepts of robotics and the mechanisms of the robotic system
34. Apply the principles of robotics to safe patient care practices in the OR
35. Create experience record of surgical procedures
36. Complete Mock Surgery Form
37. Apply principles of problem solving in ethical decision making

****Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

Part III: Grading and Assessment

EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS*

Students’ performance will be assessed and the weight associated with the various measures/artifacts are listed below.

EVALUATION*

Lecture:

Tests	40%
Assignments	10%
Lab	20%
Final Exam	<u>30%</u>
	100%

****Students, for the specific number and type of evaluations, please refer to the Instructor’s Course Information Sheet.***

GRADING SYSTEM:

- 93-100=A
- 85-92=B
- 77-84=C
- 69-76=D
- 68 or below =F

****Students, for the specific number and type of evaluations, please refer to the Instructor’s Course Information Sheet.***

GRADING SYSTEM:

6/28/17 ADA

State the College's or departmental grading system as delineated in the Catalog. Please note the College adheres to a 10 point grading scale A = 100 – 90, B = 89- 80, C = 79 – 70, D = 69 – 60, F = 59 and below. You must have your Dean's approval if changes in the scale are made.

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop ([ACADEMIC CALENDAR](#)). You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of eighty percent (80%) of his or her classes in order to be eligible to receive credit for any course. However, due to the varied nature of courses taught at the College, a more rigid attendance policy may be required by individual instructors. At a minimum, a student may be withdrawn from a course(s) after he or she has been absent in excess of ten percent (10%) of the total contact hours for a course. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

For online and hybrid courses, check your Instructor's Course Information Sheet for any required on-site meeting times. Please note, instructors may require tests to be taken at approved testing sites, if you use a testing center other than those provided by HGTC, the center may charge a fee for its services.

Part V: Student Resources



The Student Success and Tutoring Center (SSTC)

The SSTC offers to all students the following **free** resources:

1. **Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
2. **On-line student success and academic support resources**.

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, call: SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455. Room locations and Live Chat is available on the SSTC website.



Student Information Center: WaveNet Central (WNC)

WNC offers to all students the following **free** resources:

1. **Getting around HGTC:** General information and guidance for enrollment!
2. Use the [Online Resource Center \(ORC\)](#) for COMPASS support, technology education, and online tools.
3. **Drop-in technology support or scheduled training** in the Center or in class.
4. **In-person workshops, online tutorials and more services** are available.

Visit the WNC website: [Wavenet Central](#). Live Chat and Center locations are posted on the website. Or please call one of the following locations: WNC Conway, 349-5182; WNC Grand Strand, 477-2076; and WNC Georgetown, 520-1473.

Student Testing: (If course is offered in multiple format include this section, delete if only F2F sections are offered.)

Testing in an **online/hybrid** course may be accomplished in a variety of ways:

- Test administered within D2L
- Test administered in writing on paper
- Test administered through Publisher Platforms

Further more tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through RPNOW, our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#) section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

Disability Services

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Jocelyn Williams, Director of Student Development on the Conway Campus Jaime Davis, Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

Title IX Requirements

The South Carolina Technical College System does not discriminate on the basis of race, color, gender, national or ethnic origin, age, religion, disability, marital status, veteran status, sexual orientation, gender identity, or pregnancy in educational programs and activities as required by Title IX. As outlined in the Violence Against Women Act, Horry Georgetown Technical College prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking. Students who believe he or she has experienced or witnessed discrimination including sexual harassment, domestic violence, dating violence, sexual assault or stalking are encouraged to report such incidents to the Title IX Coordinators:

Dr. Melissa Batten, AVP of Student Affairs
Building 1100, Room 107A, Conway Campus
843-349-5228
6/28/17 ADA

Jacquelyne Synder, AVP of Human Resources
Building 200, Room 212A, Conway Campus
843-349-5212

Melissa.Batten@hgtc.edu

Jacquelyne.Snyder@hgtc.edu

*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).