

El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	<u>Surgical Technology</u>
COURSE RUBRIC AND NUMBER	<u>SRGT 1542</u>
COURSE TITLE	<u>Surgical Procedures II</u>
COURSE CREDIT HOURS	<u>5 4 4</u> Credits Lec Lab

I. Catalog Description

Introduces surgical pathology and its relationship to surgical procedures. Emphasizes surgical procedures related to the cardiothoracic, peripheral vascular, plastic/reconstructive, ophthalmology, oral/maxillofacial, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. A grade of “C” or better is required in this course to take the next course. **Prerequisites: SRGT 1244 and SRGT 1541, and SRGT 2560. Corequisite: SRGT 2561. (4:4). Lab fee.**

II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Unit I: Ophthalmic Surgery
 - 1. Describe the anatomical structure of the eye.
 - 2. Describe the pathology that prompts surgical intervention and the related terminology.
 - 3. Describe diagnostic studies
 - 4. Describe the intraoperative preparation of the ophthalmic surgical patient including special features/needs, instruments, equipment, supplies, pharmacologic and hemostatic agents utilized during surgery.
 - 5. Summarize surgical sequence of ophthalmic surgical procedures described in the textbook.
 - 6. Discuss possible complications of ophthalmic surgery.

- B. Unit II: Peripheral Vascular Surgery
 - 1. Identify the anatomy and physiology of the vascular system.
 - 2. Describe the pathology and related terminology of the peripheral vascular system that prompts surgical intervention.
 - 3. Describe noninvasive and invasive diagnostic studies.
 - 4. Describe the intraoperative preparation of the vascular patient including special features/needs, equipment, supplies, pharmacologic and hemostatic agents required for surgical intervention.
 - 5. Summarize surgical sequence of peripheral surgical procedures described in the textbook.
 - 6. Discuss possible intra-operative/post-operative surgical complications.

- C. Unit III: Plastic and Reconstructive Surgery
 - 1. Identify pertinent anatomy of the skin and its underlying tissues.

2. Describe the pathology that prompts plastic/reconstructive surgical intervention and the related terminology.
3. Describe the intra-operative preparation of the plastic/reconstructive patient including special features, equipment and supplies required for surgical intervention.
4. Identify grafts, implants, and prostheses relevant to plastic and reconstructive surgery
5. Summarize surgical sequence of plastic/reconstructive surgical procedures described in the textbook.
6. Discuss possible intra-operative/ post-operative complications.

D. Unit IV Oral and Maxillofacial Surgery

1. Identify the pertinent anatomy of the oral cavity
2. Describe the pathology that prompts oral surgery
3. Discuss special preoperative diagnostic studies.
4. Determine special preoperative preparation of the oral surgery patient
5. Recognize the instruments, special supplies equipment and drugs.
6. Summarize surgical sequence of oral/maxillofacial surgical procedures described in the textbook.

E. Unit IV: Neurosurgery

1. Identify the pertinent anatomy of the nervous system.
2. Describe the pathology that prompts surgical intervention of the nervous system and the related terminology.
3. Discuss special preoperative diagnostic procedures/tests.
4. Recognize instruments, equipment, drugs and supplies.
5. Describe the intraoperative preparation of the neuro surgical patient including special features/needs, instruments, equipment, and supplies.
6. Summarize surgical sequence of neurosurgical procedures described in the textbook.
7. Sequence steps for opening and closing a craniotomy.
8. Discuss possible intra-operative/post-operative complications.

F. Unit V: Thoracic Surgery

1. Identify relevant anatomy of the thoracic cavity.
2. Describe the pathology that prompts thoracic surgical intervention and related terminology.
3. Discuss diagnostic methods
4. Describe the intra-operative preparation of the thoracic surgical patient including special features/needs, instruments, equipment, supplies, pharmacologic and hemostatic agents used in open and endoscopic thoracic procedures.
5. Identify modes of thoracic access and incisional approaches.
6. Summarize surgical sequence of thoracic surgical procedures described in the textbook
7. Identify tissue layers involved in opening and closing thoracic incision
8. Discuss possible intra and postoperative complications.

G. Unit VI: Cardiac Surgery

1. Identify the relevant anatomy of the heart and great vessels.
2. Describe the pathology that prompts surgical intervention and related terminology.
3. Describe noninvasive and invasive diagnostic studies.
Describe the intraoperative preparation of the cardiac surgical patient including the special features/considerations, equipment, instruments, pharmacologic and hemostatic agents used during open and minimally invasive cardiac surgery
4. Identify commonly used incisions for cardiac surgery.
5. Describe cardiopulmonary bypass and its system components.

6. Describe methods of myocardial preservation.
7. Identify mechanical assist devices.
8. Summarize surgical sequence of cardiac surgical procedures described in the textbook.
9. Discuss intra/postoperative surgical complications.

III. THECB Learning Outcomes (WECM)

1. Relate anatomy and pathology to indications for selected surgical procedures.
2. Summarize patient preparation for selected surgical procedures.
3. Select instruments, equipment, and supplies and reconstruct the sequence for related surgical procedures.
4. Identify expected outcomes and possible complications for surgical procedures.

IV. Evaluation

- A. Preassessment
The student must have completed SRGT 1244, SRGT 1541 and SRGT 2460 with a minimum of 77%.
- B. Postassessment
 1. Written examinations will be administered at the completion of each unit of instruction.
 2. Quizzes may be administered without prior announcement.
 3. Assignments will be completed in the Anatomy Coloring Book. and Study Guide /Lab Manual
 4. A comprehensive final exam will be administered at the end of the course.
 5. It is recommended that the student sit for the Surgical Technology National Certifying Examination. It will administered at the end of course completion. It is required in order to be employed as a surgical technologist in the state of Texas.
- C. Remediation
The instructor will provide individual procedures for students needing remediation after an individual conference has been scheduled. Such procedures may include, but are not limited to tutorial assistance, supplementary assignments, etc.
- D. Grading
 1. All unit exams will be weighted equally.
 2. Quizzes will be weighted and computed as a unit exam.
 3. All unit exams will be averaged together and computed as 75% of the final grade.
 4. Assignment sheets and assignments in the Anatomy Coloring Book and Study Guide will be computed as 5% of the final grade.
 5. The comprehensive final exam will be computed as 20% of the final grade.
 6. The National Certifying Examination is not considered in final grade determination.
 7. Grading Scale
A = 93 - 100
B = 85 - 92
C = 77 - 84
D = 70 - 76
 8. All grades are rounded.
 9. SRGT 1542 must be completed with minimum of 77%. and completion of the National Certifying Examination.

V. Disability Statement (Americans with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.