

**KINGSBOROUGH COMMUNITY COLLEGE**  
**The City University of New York**

**CURRICULUM TRANSMITTAL COVER PAGE**

Department: \_\_\_\_\_ Date: \_\_\_\_\_

Title Of Course/Degree/Concentration/Certificate: \_\_\_\_\_

**Change(s) Initiated: (Please check)**

- |   |   |
|---|---|
| <input type="checkbox"/> Closing of Degree            | <input type="checkbox"/> Change in Degree or Certificate                              |
| <input type="checkbox"/> Closing of Certificate       | <input type="checkbox"/> Change in Degree: Adding Concentration                       |
| <input type="checkbox"/> New Certificate Proposal     | <input type="checkbox"/> Change in Degree: Deleting Concentration                     |
| <input type="checkbox"/> New Degree Proposal          | <input type="checkbox"/> Change in Prerequisite, Corequisite, and/or Pre/Co-requisite |
| <input type="checkbox"/> New Course                   | <input type="checkbox"/> Change in Course Designation                                 |
| <input type="checkbox"/> New 82 Course (Pilot Course) | <input type="checkbox"/> Change in Course Description                                 |
| <input type="checkbox"/> Deletion of Course(s)        | <input type="checkbox"/> Change in Course Title, Number, Credits and/or Hours         |
|   | <input type="checkbox"/> Change in Academic Policy                                    |
|   | <input type="checkbox"/> Pathways Submission:   |
|   | <input type="checkbox"/> Life and Physical Science                                    |
|   | <input type="checkbox"/> Math and Quantitative Reasoning                              |
|   | <input type="checkbox"/> A. World Cultures and Global Issues                          |
|   | <input type="checkbox"/> B. U.S. Experience in its Diversity                          |
|   | <input type="checkbox"/> C. Creative Expression                                       |
|   | <input type="checkbox"/> D. Individual and Society                                    |
|   | <input type="checkbox"/> E. Scientific World  |
- Change in Program Learning Outcomes
- Other (please describe): \_\_\_\_\_

**PLEASE ATTACH MATERIAL TO ILLUSTRATE AND EXPLAIN ALL CHANGES**

**DEPARTMENTAL ACTION**

Action by Department and/or Departmental Committee, if required:

Date Approved: \_\_\_\_\_ Signature, Committee Chairperson: Tyronne Johnson

If submitted Curriculum Action affects another Department, signature of the affected Department(s) is required:

Date Approved: \_\_\_\_\_ Signature, Department Chairperson: \_\_\_\_\_

Date Approved: \_\_\_\_\_ Signature, Department Chairperson: \_\_\_\_\_

I have reviewed the attached material/proposal

Signature, Department Chairperson: Tyronne Johnson



TO: Fall 2023 Curriculum Committee

FROM: Tyronne Johnson, Chair, Department of Allied Health, Mental Health and Human Services

DATE: 10/4/23

RE: Change in Credits and Hours for ST 500 – Advanced Surgical Procedures

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The Department of Allied Health, Mental Health and Human Services is proposing a change in Credits and Hours for ST 500 – Advanced Surgical Procedures.

**FROM:**

4 credits, 4 hrs. lecture

**TO:**

3 credits, 3 hrs. lecture

**Rationale for Change:**

The ARC/STSA is a private, non-profit accreditation services agency that provides national recognition for more than 400 higher education programs in surgical technology and surgical assisting in collaboration with the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The ARC/STSA has established August 1, 2024, as the date for full implementation of the Core Curriculum for Surgical Technology (CCST), 7<sup>th</sup> edition. Surgical Technology programs must be utilizing the (CCST), 7<sup>th</sup> edition, in its entirety after this date.

The Core Curriculum Revision Panel began the process of completing a peer-reviewed revision of the Core Curriculum for Surgical Technology (CCST), 7<sup>th</sup> edition, in February 2019. The Panel consisted of representatives of the Association of Surgical Technologists (AST), the Accreditation Council on Surgical Technology and Surgical Assisting (ARC/STSA), and the National Board of Surgical Technology and Surgical Assisting (NBSTSA). The Panel focused on multiple transformations that have occurred in the profession since the publication of the 6<sup>th</sup> edition while preserving the principles of the entry-level knowledge that the graduate needs to provide safe, quality surgical patient care.

Based on ARC/STSA CCST-7e requirements a number of revisions to Kingsborough's Surgical Technology curriculum was completed in order to ensure full compliance with the ARC/STSA CCST – 7e requirements. This included revisions to ST 500 – Advanced Surgical Procedures.

The included Syllabi depict the changes made to the course content, indicating additions (red text) and deletions (strike through).

**UPDATED SYLLABUS**  
**KINGSBOROUGH COMMUNITY COLLEGE**

Of  
 The City University of New York  
 Department of Allied Health, Mental Health and Human Services

**ST 500– Advanced Surgical Procedures V**

Course Syllabus: **Preliminary**

**FALL/2024**

**Prerequisites:** ST 4, ST4P

Credit Hours: **3 hours lecture**

**Pre/Corequisites:** BIO 51 / ST5P

**Professor:** Awilda Montes, MPH BS CST

Date/Time-Mon 8:30 am -11:30 am

Office: **C206**

email: [Awilda.montes@kbcc.cuny.edu](mailto:Awilda.montes@kbcc.cuny.edu)

Office phone# **(718) 368-6907**

Office hours: Monday & Wednesday: 12pm 1:30 pm or following class. I have an open-door policy when I am in the office and can set up a meeting, but I prefer to coordinate meetings so that you are not disappointed if I am away from my office.

*For computer assistance, contact the student Helpdesk by phone at (718) 368-6679 or email at:*

[helpdesk@students.kbcc.cuny.edu](mailto:helpdesk@students.kbcc.cuny.edu)

**CATALOG DESCRIPTION**

Continuation of anatomical systems with a focused review of pathology in conjunction with specific procedures performed. The instrumentation and surgical modalities of each **advanced surgical specialty** will be covered as they relate to the practice of Surgical Technology.

**OVERVIEW**

This course will give the student the opportunity to acquire knowledge of the more complex surgical specialties considering anatomy, pathology and associated surgical interventions. It will be taught as a **3-hour weekly lecture** in conjunction with Practicum III, which will provide more active, hands-on learning that will make this course content more relatable. This course has been scaffolded to incorporate all learning objectives from your previous semesters, therefore, it is the expectation that you are able to recall, critically analyze and apply all principles of asepsis, basic knowledge of anatomy and interoperative routines that you have learned so far.

Course Learning Outcomes	Assessment Measures
If you stick with me, by the end of this course, I promise that you will be able to:	You will be able to demonstrate that you have achieved this outcome by:
Discuss the relevant anatomy related to plastic, pediatric, ophthalmic, vascular, orthopedic, neurosurgery, thoracic and cardiac surgery.	Students will successfully answer examination questions related to the normal anatomic systems of each unit. This includes nerve and blood supply as well as type of surgical approach.
Describe the pathology that prompts surgical intervention.	Students will successfully answer examination questions related to the pathology affecting each anatomical system that would require surgical intervention.
Discuss preoperative diagnostic tests and preparations.	Students will successfully answer examination questions related to the preoperative preparation of patients requiring surgical interventions for each anatomical system.
Identify the names and uses of instruments, supplies and drugs pertinent to that body system	Students will demonstrate a working knowledge of the instruments, supplies and medications related to the surgery for each anatomic system by successfully answering test questions as well as submitting weekly homework assignments.
Identify the names and uses of specialized equipment for that system.	Students will recall the appropriate types of equipment specific to each anatomic system by successfully answering test questions related to those systems.

Define and discuss advanced surgical procedures.	The students will answer test questions, submit homework and writing assignments to demonstrate an understanding of the surgical procedures related to each anatomic system.
Discuss the expected outcomes of the surgical intervention.	The students will answer test questions and submit homework assignments that identify the outcomes of each surgical procedure for the anatomic system.
Discuss the postoperative care and possible complications.	The students will answer test questions and submit homework assignments that identify the postoperative care and possible of each surgical procedure for the anatomic system.

## Teaching Strategies

In-Person Lectures and Guided Discussions  
 Diagnostic exams with CST exam style questions  
 Use of the Slack App

Blackboard exercises including HW assignments  
 Demonstration/Return demonstration  
 Posted videos and links to Surgical Interventions

## Textbooks

**Surgical Technology Principles and Practices 7<sup>th</sup> Edition, Fuller, Rutherford and Goldman books.**  
 ISBN: 9780323430555

**Grades** will be calculated according to college and departmental policy as follows:

A+ 97-100	A 93-96	A- 90-92	B+ 87-89	B 83-86	B- 80-82
C+ 78-79	C 75-77	C- 70-74	D+ 66-69	D 60-65	F <60 and below
W	Withdrawn without penalty		WU	Unofficial Withdrawal	

Grades will be determined as described below: (example)

(5) Exams	50%	<i>traditionally 25-50 questions (12% of your grade for each exam)</i>
Assignments	20%	<i>homework and assignments</i>
Final Exam	30%	<i>100 question exam that covers all course materials covered this semester</i>

Quizzes EXTRA CREDIT towards final grade

## Policies and Procedures

The Department of Allied Health, Mental Health and Human Services adheres to the Policies and Procedures on Academic Integrity as set forth by CUNY. See the Surgical Technology Student Handbook for all current policies: <https://pdf.browsealoud.com/PDFViewer/Desktop/viewer.aspx?file=https://pdf.browsealoud.com/StreamingProxy.ashx?url=https://www.kbcc.cuny.edu/academicdepartments/alliedhealth/surgicaltech/documents/SurgTechHANDBOOK2021-2022.pdf&opts=www.kbcc.cuny.edu#langidsrc=en-us&locale=en-us&dom=www.kbcc.cuny.edu>

You can also find additional information in the KCC Catalog and website. Students will be given a 15-minute quiz based on the assigned reading at the beginning of each class to reinforce chapters reading. Quizzes will be counted as extra credit towards the final grade. Those students that arrive late or are absent during the quiz will not be allowed to make it up. Students are expected to take all tests when scheduled. Students who do not take a test during the allotted time period must consult with their instructor to reschedule the exam for the end of the semester. **Students who fail to take the scheduled exams will not be allowed to make them up until the last day of class following the final exam. Makeup Exam will be the same material, but may not be the same exact exam given prior. If the student fails to makeup exam by the end of the semester, they will receive a grade of zero for that test.** Assignments are to be submitted via email as a word document and must be received before midnight on the due date. All other submissions will be assessed 5 points per date that it is late. A late assignment will meet the requirements of the course but will not receive full credit. **If assignments are not submitted by the end of the course, the student will receive a grade of "0" for each incomplete assignment.** If you are submitting a Word document in an alternate format and I am unable to open it, it is marked as incomplete. If you are submitting it as a Google doc, you must grant me permission to view the

document. It is your responsibility to submit your assignments on time. As your instructor, I will not chase or hound you if they are not submitted. I do not accept screen shots of handwritten assignments, so please plan to complete the work in a word doc and submit it in a timely manner. There is a no-AI-tolerance rule in this class, if you are found to have used AI shortcuts on your assignments, you will receive a zero grade. No makeups will be allowed.

**A private conference (see office hours) with the instructor is required at the mid-semester point to discuss your progress and we will also allot time to make sure you are on course to graduate. Student may request a meeting at any time if they are falling behind or struggling with the material. Please do not wait until the end of the semester to ask for help because it will be too late. Your continued success is important to us, never hesitate to reach out to one of your instructors. We are all here to help.**

### **STUDENT SUPPORT SERVICES**

If you think you need accommodation for a disability, please let me know at your earliest convenience. Some aspects of this course, such as the assignments, in-class activities, or the way we teach, may be modified to facilitate your participation and progress. As soon as you make us aware of your needs, we can work with you, and the Office of Access-Ability Services will help determine appropriate accommodation. We will treat any information about your disability with the utmost discretion.

Students who need support services during their time at Kingsborough Community College should make an appointment with the **Access-Ability Office** in Room D205 (718) 368-5175.

### **ACCESS RESOURCE CENTER (ARC)**

#### **Room V-231, ext. 5411**

The Access Recourse Center connects Kingsborough students to the benefits and resources for which they may qualify. A free 15-minute benefits screening can potentially point the way to help with rent, groceries, and/or health insurance. In addition, students can receive the following free services; legal aid; financial counseling; and tax preparation.

### **Counseling Services**

#### **Room D-102**

All Kingsborough students are eligible to receive free and confidential personal counseling through the Counseling Services Center, where they will find a staff of trained and caring mental health practitioners who are committed to providing high-quality services, in a safe, supportive, and judgment-free environment, while always respecting students as individuals and as members of a diverse school community. The center’s mission is to provide counseling that facilitates meaningful personal growth and the fullest academic development of each individual.

### **Religious/Cultural Observance**

Students who have religious or cultural observances that coincide with this class should let me know in writing by e-mail one week in advance of an impending absence for your respective observance. I strongly encourage you to honor your cultural and religious holidays. If I am notified in a timely manner, you may be excused from the class, but you are not excused from the work. All assignments must be submitted on time. If an assignment due date directly conflicts with a holiday or religious observance, then you should plan on submitting it a day earlier since you have the assignment days in advance.

12-week semester	Topic and Learning Objectives of the week	Content/Lecture Discussion	Assignments, Exams and due dates	Announcements / Important Dates / Holidays
Week 1 Mon-Wed	Chapter 26 Ophthalmic Surgery  Discuss the role of the surgical technologist as it relates to those	<b>Eyelid Procedures</b>  - ectropian/entropion repair 2. Strabismus procedures - recession - resection	Read Chapter 26 PP 634-661  HW #1 due Sun ##/##	

	<p>procedures of the eye, including :</p> <ul style="list-style-type: none"> <li>Identifying key anatomical structures of the eye.</li> <li>Discuss common diagnostic procedures of the eye</li> <li>Discuss specific elements of case planning for eye surgery</li> <li>Discuss surgical techniques used in eye surgery, including use of the surgical microscope</li> </ul>	<p>3. Corneal procedures</p> <ul style="list-style-type: none"> <li>- keratoplasty/corneal transplant</li> <li>- radial keratotomy</li> </ul> <p>4. Lens Procedures- intracapsular cataract extraction</p> <ul style="list-style-type: none"> <li>- extracapsular cataract extraction</li> <li>- phacoemulsification</li> <li>- placement of intraocular lens</li> </ul> <p>5. Retinal Procedures</p> <ul style="list-style-type: none"> <li>- cryotherapy</li> <li>- scleral buckling</li> </ul>	Before Midnight	
<b>Week 2</b> Mon-Wed	<b>Ophthalmic Surgery, Chapter 26 Continued</b>	<p>6. Vitreous Procedures</p> <ul style="list-style-type: none"> <li>- anterior vitrectomy</li> <li>- posterior vitrectomy</li> </ul> <p>7. Glaucoma Procedures</p> <ul style="list-style-type: none"> <li>- iridectomy</li> <li>- trabeculectomy</li> <li>- placement of drainage shunt</li> </ul> <p>8. Miscellaneous</p> <ul style="list-style-type: none"> <li>- excision of pterygium</li> <li>- excision of chalazion</li> <li>- lacrimal duct probing</li> <li>- dacryocystorhinostomy</li> <li>- enucleation</li> <li>- orbital exenteration</li> </ul>	Ophthalmic Surgery	<b>Exam #1</b> on Wednesday ##/##
<b>Week 3</b> Mon-Wed	<p><b>Chapter 30 Orthopedic Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to orthopedic procedures, including:</p> <ul style="list-style-type: none"> <li>Identifying major bones of the body</li> <li>Discuss specific types of instruments used in orthopedic procedures</li> <li>Explain the use of common orthopedic implants and hardware</li> <li>Use basic techniques used in fracture reduction and fixation</li> </ul>	<p><b>Orthopedic Procedures</b></p> <p>1. Fracture management</p> <ul style="list-style-type: none"> <li>- types of fractures</li> <li>- bone healing</li> <li>- closed reduction/casting</li> <li>- external fixation</li> <li>- open reduction/internal fixation</li> <li>- prosthetic replacement</li> <li>- treatment of non-union</li> </ul> <p>2. Shoulder Procedures</p> <ul style="list-style-type: none"> <li>- arthroscopy</li> <li>- rotator cuff repair</li> <li>- humeral head arthroplasty</li> <li>- total shoulder replacement</li> </ul> <p>3. Upper limb Procedures</p> <ul style="list-style-type: none"> <li>- elbow arthroplasty</li> <li>- total elbow replacement</li> <li>- total wrist replacement</li> </ul> <p>4. Hip Procedures</p> <ul style="list-style-type: none"> <li>- Fixation of femoral head fractures</li> <li>- total hips arthroplasty</li> </ul> <p>5. Lower Limb Procedures</p> <ul style="list-style-type: none"> <li>- epiphydesis</li> <li>- fractures</li> </ul>	Read Chapter 30 PP 751-809	<b>HW #2 due</b> ##/## <b>Before Midnight</b>
<b>Week 4</b> Mon-Wed	Orthopedic Surgery Continued	<p>6. Knee Procedures</p> <ul style="list-style-type: none"> <li>- arthroscopy</li> <li>- Meniscectomy</li> <li>- anterior collateral ligament repair</li> <li>- total knee replacement</li> </ul> <p>7. Ankle/Foot Procedures</p> <ul style="list-style-type: none"> <li>- arthroscopy</li> </ul>	<b>Exam #2</b> Orthopedics Wednesday ##/##	

		<ul style="list-style-type: none"> <li>- arthrodesis</li> <li>- malleolar fracture</li> <li>- total ankle replacement</li> <li>- triple arthrodesis</li> <li>- bunionectomy</li> <li>- correction of hammer toe</li> </ul> <p>8. Miscellaneous</p> <ul style="list-style-type: none"> <li>- amputation</li> <li>- disarticulation</li> <li>- osteotomy</li> <li>-specialty instruments/fracture management systems</li> <li>- tendon procedures</li> </ul>		
<b>Week 5</b> Mon-Wed	<p><b>Chapter 31 Peripheral Vascular Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to those procedures of the peripheral vascular system, including:</p> <ul style="list-style-type: none"> <li>● Identify key anatomical features of the vascular system</li> <li>● Discuss diagnostic procedures of the vascular system</li> <li>● Discuss specific elements of case planning in vascular surgery</li> <li>● Describe surgical techniques used in vascular surgery</li> <li>● Discuss vascular pathology</li> <li>● List and describe common vascular procedures</li> </ul>	<p>Vascular Procedures</p> <ol style="list-style-type: none"> <li>1. Dialysis Procedures <ul style="list-style-type: none"> <li>- arteriovenous fistula</li> <li>- arteriovenous graft</li> </ul> </li> <li>2. Embolectomy/thrombectomy</li> <li>3. Carotid endarterectomy</li> <li>4. Bypass grafting <ul style="list-style-type: none"> <li>- femoral - popliteal – tibial</li> <li>- aorto - iliac – femoral</li> </ul> </li> </ol>	<p>Read Chapter 31 PP 811-845</p> <p><b>HW #3 due Sunday ##/## before Midnight</b></p>	<p>No Class Monday 10/9</p> <p>Tuesday 10/10 - Follow Monday Schedule</p>
<b>Week 6</b> Mon-Wed	<b>Peripheral Vascular Surgery continued</b>	<ol style="list-style-type: none"> <li>5. Repair of aneurysms <ul style="list-style-type: none"> <li>- aortic</li> <li>- other</li> <li>- endovascular</li> </ul> </li> <li>6. Inferior vena cava filters</li> <li>7. Sympathectomy</li> <li>8. Amputations</li> </ol>	<b>Exam #3</b> Vascular Surgery Wednesday ##/##	
<b>Week 7</b> Mon-Wed	<p><b>Chapter 35 Neurology</b></p> <p>Discuss the role of the surgical technologist as it relates to neurosurgery, including:</p> <ul style="list-style-type: none"> <li>● Identifying key anatomical features of the nervous system</li> <li>● Describe the basics physiology of the autonomic nervous system</li> <li>● Describe basic diagnostic procedures of the nervous system</li> <li>●</li> </ul>	<p>Neurosurgery</p> <ol style="list-style-type: none"> <li>1. Cranial Procedures <ul style="list-style-type: none"> <li>- trephination</li> <li>- craniectomy</li> <li>- craniotomy <ul style="list-style-type: none"> <li>* aneurysm</li> <li>* tumor</li> </ul> </li> <li>- cranioplasty</li> <li>- ventricular shunting</li> <li>- transsphenoidal hypophysectomy</li> <li>- stereotactic procedures</li> </ul> </li> </ol>	<p>Read Chapter 35 Pp 937-982</p> <p><b>HW #4 due Sunday ##/## Before Midnight</b></p>	
<b>Week 8</b> Mon-Wed	<p>Neuro Surgery Continued:</p> <ul style="list-style-type: none"> <li>● Discuss key elements of case planning for pediatric surgery</li> </ul>	<ol style="list-style-type: none"> <li>2. Spinal Procedures <ul style="list-style-type: none"> <li>- cervical fusions</li> <li>- lumbar laminectomy</li> <li>- spinal fusion'</li> </ul> </li> </ol>	<b>Exam #4</b> <b>Neuro</b> <b>Wednesday</b> <b>##/##</b>	

	<ul style="list-style-type: none"> <li>List and describe common surgical procedures of the nervous system</li> </ul>	<ul style="list-style-type: none"> <li>- percutaneous discectomy</li> <li>- chemonucleolysis</li> <li>- cordotomy/rhizotomy</li> </ul> <p>3. Peripheral Nerve Procedures</p> <ul style="list-style-type: none"> <li>- median nerve exploration</li> <li>- ulnar nerve transposition</li> </ul>		
<b>Week 9</b> Mon-Wed	<p><b>Chapter 32 Thoracic and Pulmonary Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to thoracic surgery, including:</p> <ul style="list-style-type: none"> <li>Identifying key anatomical structures of the respiratory structures in the thoracic cavity</li> <li>Describe diagnostic procedures of the respiratory system</li> <li>Discuss pathology of the respiratory system</li> <li></li> </ul>	<p>Thoracic and Pulmonary Surgery</p> <p>1. Closed Procedures</p> <ul style="list-style-type: none"> <li>- bronchoscopy</li> <li>- mediastinoscopy</li> <li>- thoracoscopy</li> <li>- insertion of chest tubes</li> </ul>	<p>Read chapter 32 PP 846-865</p> <p><b>HW #5 due Sunday ##/## Before Midnight</b></p>	
<b>Week 10</b> Mon-Wed	<p>Thoracic Pulmonary Continues</p> <ul style="list-style-type: none"> <li>Discuss specific elements of case planning in surgery of the thoracic cavity and respiratory system</li> <li>List and describe common thoracic procedures of the respiratory system</li> </ul>	<p>2. Open Procedures</p> <ul style="list-style-type: none"> <li>- scalene node biopsy</li> <li>- thoracoplasty</li> <li>- thoracotomy</li> <li>- lung biopsy/wedge resection</li> <li>- pneumonectomy</li> <li>- decortication of lung</li> <li>- pericardial window</li> </ul>		
<b>Week 11</b> Mon-Wed	<p><b>Chapter 33 Cardiac Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to cardiac-specific surgery including</p> <ul style="list-style-type: none"> <li>Identify key anatomical features of the heart and great vessels</li> <li>2 Describe diagnostic procedures commonly used in cardiac medicine</li> <li>Describe specific elements of case planning for cardiac surgery</li> </ul>	<p>Cardiac procedures</p> <p>1. Pacemaker/automatic implantable cardiac defibrillator (AICD)</p> <p>2. Intra-aortic balloon insertion</p> <p>3. Congenital Anomalies</p> <ul style="list-style-type: none"> <li>- patent ductus arteriosus</li> <li>- coarctation of the aorta</li> <li>- atrial septal defect</li> <li>- ventricular septal defect</li> <li>- Tetralogy of Fallot</li> </ul>	<p>Read Chapter 33 PP 866-907</p> <p><b>HW #6 due Sunday ##/## Before Midnight</b></p>	
<b>Week 12</b> Mon-Wed	<p>Cardiac continued:</p> <ul style="list-style-type: none"> <li>4 Discuss cardiac pathology</li> </ul>	<p>5. Acquired lesions</p> <ul style="list-style-type: none"> <li>- Percutaneous transluminal coronary angioplasty (PTCA)</li> <li>- Coronary artery bypass graft</li> <li>- Valve repair/replacement</li> </ul>	<p><b>Exam #5 – Wednesday</b></p>	<p>Last Day of Class</p> <p><b>Last day to withdraw/drop</b></p>



	<ul style="list-style-type: none"> <li>• 5 Define the primary surgical goals for common cardiac procedures</li> <li>• 6 Discuss what instrument sets might be used for common cardiac procedures</li> </ul>	- Ventricular Aneurysm	cardiac, thoracic, (50)	<b>with a "W" grade, Sunday</b>
<p>##/## FINAL EXAM</p> <p>Happy Holidays!!</p>				

**ORIGINAL SYLLABUS**  
**KINGSBOROUGH COMMUNITY COLLEGE**  
Of

The City University of New York  
Department of Allied Health, Mental Health and Human Services

**ST 500– Advanced Surgical Procedures V**

Course Syllabus: FALL 2023

**Prerequisites:** ST 400, ST4P

~~Credit Hours: 4~~

**Pre/Corequisites:** BIO 51 / ST5P

**Professor:** Awilda Montes, MPH BS CST  
10:10am

Date/Time- Mon & Wed 8am -

Office: **C206**

email: **Awilda.montes@kbcc.cuny.edu**

Office phone# **(718) 368-6907**

Office hours: Monday & Wednesday: following class. I have an open-door policy when I am in the office and can set up a mee, but I prefer to coordinate meetings so that you are not disappointed if I am away from my office.

For computer assistance, contact the student Helpdesk by phone at (718) 368-6679 or email at: [helpdesk@students.kbcc.cuny.edu](mailto:helpdesk@students.kbcc.cuny.edu)

## CATALOG DESCRIPTION

Continuation of anatomical systems with a focused review of pathology in conjunction with specific procedures performed. The instrumentation and surgical modalities of each specialty will be covered as they relate to the practice of Surgical Technology. ~~The advanced surgical specialties include Ophthalmic, Vascular, Orthopedic, Neurosurgery, Thoracic, Cardiac, Trauma and Transplant.~~

## OVERVIEW

This course will give the student the opportunity to acquire knowledge of the more complex surgical specialties considering anatomy, pathology and associated surgical interventions. It will be taught as a 4-hour weekly lecture in conjunction with Practicum III, which will provide the more active, hands-on learning that will make this course content more relatable. This course has been scaffolded to incorporate all learning objectives from your previous semesters, therefore, it is the expectation that you are able to recall, critically analyze and apply all principles of asepsis, basic knowledge of anatomy and interoperative routines that you have learned so far.

Course Learning Outcomes	Assessment Measures
If you stick with me, by the end of this course, I promise that you will be able to:	You will be able to demonstrate that you have achieved this outcome by:
Discuss the relevant anatomy related to plastic, pediatric, ophthalmic, vascular, orthopedic, neurosurgery, thoracic and cardiac surgery.	Students will successfully answer examination questions related to the normal anatomic systems of each unit. This includes nerve and blood supply as well as type of surgical approach.
Describe the pathology that prompts surgical intervention.	Students will successfully answer examination questions related to the pathology affecting each anatomical system that would require surgical intervention.
Discuss preoperative diagnostic tests and preparations.	Students will successfully answer examination questions related to the preoperative preparation of patients requiring surgical interventions for each anatomical system.
Identify the names and uses of instruments, supplies and drugs pertinent to that body system	Students will demonstrate a working knowledge of the instruments, supplies and medications related to the surgery for each anatomic system by successfully answering test questions as well as submitting weekly homework assignments.
Identify the names and uses of specialized equipment for that system.	Students will recall the appropriate types of equipment specific to each anatomic system by successfully answering test questions related to those systems.
Define and discuss advanced surgical procedures.	The students will answer test questions, submit homework and writing assignments to demonstrate an understanding of the surgical procedures

	related to each anatomic system.
Discuss the expected outcomes of the surgical intervention.	The students will answer test questions and submit homework assignments that identify the outcomes of each surgical procedure for the anatomic system.
Discuss the postoperative care and possible complications.	The students will answer test questions and submit homework assignments that identify the postoperative care and possible of each surgical procedure for the anatomic system.

### Teaching Strategies

In-Person Lectures and Guided Discussions	Blackboard exercises including HW assignments
Diagnostic exams with CST exam style questions	Demonstration/Return demonstration
Use of the Slack App	Posted videos and links to Surgical Interventions

### Textbooks

No new textbooks are necessary. You will continue to use your Fuller, Rutherford and Goldman books.

**Grades** will be calculated according to college and departmental policy as follows:

A+ 97-100	A 93-96	A- 90-92	B+ 87-89	B 83-86	B- 80-82
C+ 78-79	C 75-77	C- 70-74	D+ 66-69	D 60-65	F <60and below
<b>W</b>	<b>Withdrew without penalty</b>		<b>WU</b>	<b>Unofficial Withdrawal</b>	

Grades will be determined as described below: (example)

(5) Exams	60%	<i>traditionally 25-50 questions (12% of your grade for each exam)</i>
Assignments	10%	<i>homework assignments</i>
Final Exam <i>semester</i>	30%	<i>100 question exam that covers all course materials covered this semester</i>
Quizzes	EXTRA CREDIT towards final grade	

### Policies and Procedures

The Department of Allied Health, Mental Health and Human Services adheres to the Policies and Procedures on Academic Integrity as set forth by CUNY. See the Surgical Technology Student Handbook for all current policies:

<https://pdf.browsealoud.com/PDFViewer/Desktop/viewer.aspx?file=https://pdf.browsealoud.com/StreamingProxy.ashx?url=https://www.kbcc.cuny.edu/academicdepartments/alliedhealth/surgicaltech/documents/SurgTechHANDBOOK2021-2022.pdf&opts=www.kbcc.cuny.edu#langidsrc=en-us&locale=en-us&dom=www.kbcc.cuny.edu>

You can also find additional information in the KCC Catalog and website. Students will be given a 15-minute quiz

based on the assigned reading at the beginning of each class to reinforce chapters reading. Quizzes will be counted as extra-credit towards the final grade. Those students that arrive late or are absent during the quiz will not be allowed to make it up. Students are expected to take all tests when scheduled. Students who do not take a test during the allotted time period must consult with their instructor to reschedule the exam for the end of the semester. **Students who fail to take the scheduled exams will not be allowed to make them up until the last day of class following the finals exam. Makeup Exam will be the same material but may not be the same exact exam given prior. If student fails to make-up exam by the end of the semester, they will receive a grade of zero for that test.** Assignments are to be submitted via email as a word document and must be received before midnight on the due date. All other submissions will be assessed 5 points per date that it is late. A late assignment will meet the requirements of the course but will not receive full credit. **If assignments are not submitted by the end of the course, the student will receive a grade of "0" for each incomplete assignment.** If you are submitting a Word document in an alternate format and I am unable to open it, it is marked as incomplete. If you are submitting it as a Google doc, you must grant me permission to view the document. It is your responsibility to submit your assignments on time. As your instructor, I will not chase or hound you if they are not submitted. I do not accept screen shots of handwritten assignments, so please plan to complete the work in a word doc and submit it in a timely manner. There is a no-AI-tolerance rule in this class, if you are found to have used AI shortcuts on your assignments, you will receive a zero grade. No makeups will be allowed.

**A private conference (see office hours) with the instructor is required at the mid-semester point to discuss your progress and we will also allot time to make sure you are on course to graduate. Student may request a meeting at any time if they are falling behind or struggling with the material. Please do not wait until the end of the semester to ask for help because it will be too late. Your continued success is important to us, never hesitate to reach out to one of your instructors. We are all here to help.**

## **STUDENT SUPPPORT SERVICES**

If you think you need an accommodation for a disability, please let me know at your earliest convenience. Some aspects of this course, such as the assignments, in-class activities, or the way we teach may be modified to facilitate your participation and progress. As soon as you make us aware of your needs, we can work with you, and the Office of Access-Ability Services will help determine appropriate accommodation. We will treat any information about your disability with the utmost discretion.

Students who need support services during their time at Kingsborough Community College should make an appointment with the **Access-Ability Office** in Room D205 (718) 368-5175.

## **ACCESS RESOURCE CENTER (ARC)**

### **Room V-231, ext. 5411**

The Access Recourse Center connects Kingsborough students to the benefits and resources for which they may qualify. A free 15-minute benefits screening can potentially point the way to help with rent, groceries, and/or health insurance. In addition, students can receive the following free services; legal aid; financial counseling; and tax preparation.

### **Counseling Services**

#### **Room D-102**

All Kingsborough students are eligible to receive free and confidential personal counseling through the Counseling Services Center, where they will find a staff of trained and caring mental health practitioners who are committed to providing high-quality services, in a safe, supportive, and judgment-free environment, while always respecting students as individuals and as members of a diverse school community. The center’s mission is to provide counseling that facilitates meaningful personal growth and the fullest academic development of each individual.

### Religious/Cultural Observance

Students who have religious or cultural observances that coincide with this class should let me know in writing by e-mail one week in advance of an impending absence for your respective observance. I strongly encourage you to honor your cultural and religious holidays. If I am notified in a timely manner, you may be excused from the class, but you are not excused from the work. All assignments must be submitted on time. If an assignment due date directly conflicts with a holiday or religious observance, then you should plan on submitting it a day earlier since you have the assignment days in advance.

12-week semester	Topic and Objectives of the week	Content/Lecture Discussion	Assignments, Exams and due dates	Announcements / Important Dates / Holidays
<p>Week 1</p> <p>9/11-9/15</p>	<p><b>Chapter 30 Plastic and Reconstructive Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to Plastic Surgery.</p>	<p><b>Plastic and Reconstruction Procedures</b></p> <p>Aesthetic/cosmetic procedures</p> <ul style="list-style-type: none"> <li>— abdominoplasty</li> <li>— blepharoplasty</li> <li>— dermabrasion</li> <li>— liposuction</li> <li>— augmentation mammoplasty</li> <li>— reduction mammoplasty</li> <li>— mastopexy.</li> <li>— Mentoplasty</li> <li>— Rhinoplasty</li> <li>— Rhytidectomy</li> </ul> <p>Reconstructive Surgery</p> <ul style="list-style-type: none"> <li>— full thickness skin graft (FTSG)</li> <li>— scar revisions</li> <li>— split thickness skin grafts (STSG)</li> <li>— flaps</li> <li>— tissue expansion</li> <li>— cheiloplasty</li> <li>— palatoplasty</li> <li>— contracture release</li> <li>— escharotomy</li> <li>— debridement</li> </ul> <p>Hand Surgery</p> <ul style="list-style-type: none"> <li>— carpal/metacarpal arthroplasty</li> <li>— carpal tunnel release</li> <li>— ganglion excision</li> <li>— palmar fasciectomy</li> <li>— release of trigger finger</li> <li>— syndactyly release</li> </ul>	<p>Read Chapter 30</p> <p>Pp 737-743</p> <p>HW #1 due Sun 9/17</p> <p>Before Midnight</p>	<p><b>Monday 9/14 LAST DAY to add/drop courses</b></p>



		<p>7. Glaucoma Procedures</p> <ul style="list-style-type: none"> <li>- iridectomy</li> <li>- trabeculectomy</li> <li>- placement of drainage shunt</li> </ul> <p>8. Miscellaneous</p> <ul style="list-style-type: none"> <li>- excision of pterygium</li> <li>- excision of chalazion</li> <li>- lacrimal duct probing</li> <li>- dacryocystorhinostomy</li> <li>- enucleation</li> <li>- orbital exenteration</li> </ul>		
<b>Week 5</b> 10/9-10/13	<b>Chapter 36 Neurology</b>  Discuss the role of the surgical technologist as it relates to neurosurgery.	<b>Neurosurgery</b>  1. Cranial Procedures <ul style="list-style-type: none"> <li>- trephination</li> <li>- craniectomy</li> <li>- craniotomy <ul style="list-style-type: none"> <li>* aneurysm</li> <li>* tumor</li> </ul> </li> <li>- cranioplasty</li> <li>- ventricular shunting</li> <li>- transsphenoidal hypophysectomy</li> <li>- stereotactic procedures</li> </ul> 2. Spinal Procedures <ul style="list-style-type: none"> <li>- cervical fusions</li> <li>- lumbar laminectomy</li> <li>- spinal fusion'</li> <li>- percutaneous discectomy</li> <li>- chemoneucleolysis</li> <li>- cordotomy/rhizotomy</li> </ul> 3. Peripheral Nerve Procedures <ul style="list-style-type: none"> <li>- median nerve exploration</li> </ul>	<b>EXAM #2</b> Tuesday 10/10  Pediatrics & Ophthalmic (Eyes) Surgery  Read Chapter 36 PP 966-1017  <b>HW #4 due Sunday 10/15 before Midnight</b>	No Class Monday 10/9  Tuesday 10/10  - Follow Monday Schedule

		- ulnar nerve transposition		
<b>Week 6</b> 10/16- 10/20	<b>Neuro continued</b>		<b>Neuro Exam #3</b> Wednesday 10/18	
<b>Week 7</b> 10/23- 10/27	<b>Chapter 31 Orthopedic Surgery</b>  Discuss the role of the surgical technologist as it relates to orthopedic procedures.	<b>Orthopedic Procedures</b>  1. Fracture management - types of fractures - bone healing - closed reduction/casting - external fixation - open reduction/internal fixation - prosthetic replacement - treatment of non-union  2. Shoulder Procedures - arthroscopy - rotator cuff repair - humeral head arthroplasty - total shoulder replacement  3. Upper limb Procedures - elbow arthroplasty - total elbow replacement - total wrist replacement  4. Hip Procedures - Fixation of femoral head fractures - total hips arthroplasty  5. Lower Limb Procedures - epiphydesis - fractures  6. Knee Procedures - arthroscopy - Meniscectomy - anterior collateral ligament repair	Read Chapter 31  Pp 761-831  <b>HW #5 due Sunday 10/29 Before Midnight</b>	



		<ul style="list-style-type: none"> <li>- total knee replacement</li> </ul> <p>7. Ankle/Foot Procedures</p> <ul style="list-style-type: none"> <li>- arthroscopy</li> <li>- arthrodesis</li> <li>- malleolar fracture</li> <li>- total ankle replacement</li> <li>- triple arthrodesis</li> <li>- bunionectomy</li> <li>- correction of hammer toe</li> </ul> <p>8. Miscellaneous</p> <ul style="list-style-type: none"> <li>- amputation</li> <li>- disarticulation</li> <li>- osteotomy</li> <li>- specialty instruments/fracture management systems</li> </ul> <p>- tendon procedures</p>		
<p><b>Week 8</b></p> <p>10/30-11/3</p>	Orthopedics Continued		<p><b>Ortho Exam #4</b></p> <p><b>Wednesday 11/1</b></p>	
<p><b>Week 9</b></p> <p>11/6-11/10</p>	<p><b>Chapter 32 Peripheral Vascular Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to those procedures of the peripheral vascular system.</p>	<p><b>Vascular Procedures</b></p> <p>1. Dialysis Procedures</p> <ul style="list-style-type: none"> <li>- arteriovenous fistula</li> <li>- arteriovenous graft</li> </ul> <p>2. Embolectomy/thrombectomy</p> <p>3. Carotid endarterectomy</p> <p>4. Bypass grafting</p> <ul style="list-style-type: none"> <li>- femoral - popliteal – tibial</li> <li>- aorto - iliac – femoral</li> </ul> <p>5. Repair of aneurysms</p> <ul style="list-style-type: none"> <li>- aortic</li> <li>- other</li> <li>- endovascular</li> </ul>	<p>Read Chapter 32 Peripheral Vascular Surgery Pp 836-849</p> <p><b>HW #6 due Sunday 11/12</b></p> <p><b>Before Midnight</b></p>	

		6. Inferior vena cava filters 7. Sympathectomy 8. Amputations		
<b>Week 10</b>  11/13-11/17	<b>Chapter 33 Thoracic and Pulmonary Surgery</b>  Discuss the role of the surgical technologist as it relates to thoracic surgery.	<b>Thoracic and Pulmonary Surgery</b>  1. Closed Procedures - bronchoscopy - mediastinoscopy - thoracoscopy - insertion of chest tubes  2. Open Procedures - scalene node biopsy - thoracoplasty - thoracotomy - lung biopsy/wedge resection - pneumonectomy - decortication of lung - pericardial window	Read Chapter 33 Pp 870-880  <b>HW #7 due Sunday 11/19 Before Midnight</b>	
<b>Week 11</b>  11/20-11/24	<b>Chapter 34 Cardiac Surgery</b>  Discuss the role of the surgical technologist as it relates to cardiac specific surgery.	<b>Cardiac procedures</b>  1. Pacemaker/automatic implantable cardiac defibrillator (AICD)  2. Intra-aortic balloon insertion  3. Congenital Anomalies - patent ductus arteriosus - coarctation of the aorta - atrial septal defect - ventricular septal defect - Tetralogy of Fallot  5. Acquired lesions - Percutaneous transluminal coronary angioplasty (PTCA) - Coronary artery bypass graft - Valve repair/replacement - Ventricular Aneurysm	Read Chapter 34 Cardiac Surgery Pp 892-923	<b>No Classes Scheduled Wednesday</b> <b>Thanksgiving Break</b>  <b>Classes resume Monday 11/27</b>

<p><b>Week 12</b> 11/27-12-1</p>	<p>Cardiac continued</p>		<p><b>HW #8 due Sunday 11/26</b></p> <p><b>Before Midnight</b></p>	
<p><b>Week 13</b> 12/4-12/8</p>	<p><b>Chapter 37 Emergency Trauma Surgery</b></p> <p>Discuss the role of the surgical technologist as it relates to trauma, organ/tissue donation and procurement.</p>	<p><b>Emergency Trauma Procedures</b></p> <p><del>Mechanism of injury:</del></p> <ul style="list-style-type: none"> <li><del>— motor vehicle accidents</del></li> <li><del>— falls</del></li> <li><del>— penetrating trauma</del></li> <li><del>— explosions</del></li> <li><del>— thermal</del></li> </ul> <p><del>2. Assessment</del></p> <ul style="list-style-type: none"> <li><del>— lab tests</del></li> <li><del>— diagnostic procedures</del></li> </ul> <p><del>3. Multiple operative procedures</del></p> <p><del>4. Infection</del></p> <p><del>5. Autotransfusion</del></p> <p><del>6. Evidence Preservation</del></p> <p><del>7. Anesthesia Considerations</del></p> <p><del>8. Surgical Interventions</del></p>	<p><b>Read Chapter 37 Pp 1120-1140</b></p> <p><del>Exam #5— Wednesday 12/6</del></p> <p>Vascular, cardiac, thoracic,</p> <p>Emergency Trauma (50)</p> <p><b>HW #9 Use as study guide</b></p>	<p>Last Day of Class Friday 12/8</p> <p><b>Last day to withdraw/drop with a “W” grade, Sunday 12/10</b></p>

		<ul style="list-style-type: none"><li>—subdural hematoma</li><li>—facial fractures</li><li>—penetrating eye trauma</li><li>—rib fractures/flail chest</li><li>—aortic dissection</li><li>—myocardial contusion</li><li>—splenic rupture</li><li>—liver injury</li><li>—skeletal injuries</li></ul> <p>Organ Donation/Procurement</p> <ol style="list-style-type: none"><li>1. NYS Regulations</li><li>2. Organ Donor Network</li><li>3. Criteria for donation</li><li>4. Order of procurement</li><li>5. Typical procurement procedures</li><li>6. Transplantation</li></ol>		
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12/13 FINAL EXAM

Happy Holidays



TO: Fall 2023 Curriculum Committee

FROM: Tyronne Johnson, Chair, Department of Allied Health, Mental Health and Human Services

DATE: 10/4/23

RE: Change in Description for ST 500 – Advanced Surgical Procedures

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The Department of Allied Health, Mental Health and Human Services is proposing a change in Description for ST 500 – Advanced Surgical Procedures.

**FROM:**

Continuation of anatomical systems with a focused review of pathology in conjunction with specific procedures performed. The instrumentation and surgical modalities of each specialty will be covered as they relate to the practice of Surgical Technology. ~~The advanced surgical specialties include Ophthalmic, Vascular, Orthopedic, Neurosurgery, Thoracic, Cardiac, Trauma and Transplant.~~

**TO:**

Continuation of anatomical systems with a focused review of pathology in conjunction with specific procedures performed. The instrumentation and surgical modalities of each **advanced surgical specialty** will be covered as they relate to the practice of Surgical Technology.

**Rationale for Change:**

The ARC/STSA is a private, non-profit accreditation services agency that provides national recognition for more than 400 higher education programs in surgical technology and surgical assisting in collaboration with the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The ARC/STSA has established August 1, 2024, as the date for full implementation of the Core Curriculum for Surgical Technology (CCST), 7<sup>th</sup> edition. Surgical Technology programs must be utilizing the (CCST), 7<sup>th</sup> edition, in its entirety after this date.

The Core Curriculum Revision Panel began the process of completing a peer-reviewed revision of the Core Curriculum for Surgical Technology (CCST), 7<sup>th</sup> edition, in February 2019. The Panel consisted of representatives of the Association of Surgical Technologists (AST), the Accreditation Council on Surgical Technology and Surgical Assisting (ARC/STSA), and the National Board of Surgical Technology and Surgical Assisting (NBSTSA). The Panel focused on multiple transformations that have occurred in the profession since the publication of the 6<sup>th</sup> edition while preserving the principles of the entry-level knowledge that the graduate needs to provide safe, quality surgical patient care.

Based on ARC/STSA CCST-7e requirements a number of revisions to Kingsborough's Surgical Technology curriculum was completed in order to ensure full compliance with the ARC/STSA CCST – 7e. This included revisions to ST 500 – Advanced Surgical Procedures, we streamlined the description to not be limited to specific advanced surgical procedures.