

KINGSBOROUGH COMMUNITY COLLEGE

Of

The City University of New York

ST5P – Practicum III

Prerequisites: ST 4, ST 4P

Pre/Co-requisites: BIO 51

Co-requisites: ST 5

Course Syllabus: 2019

Credit Hours: 3

Practicum Hours: 16 hours/ week

Catalogue Description This course is designed to provide the student individualized experience in practice in the field. Emphasis is placed on demonstrating proficiency in skills necessary for participation in basic surgical procedures.

Course Overview This course will afford the student the opportunity to build on skills learned and actively participate in selected surgical procedures in the basic surgical specialties in the clinical environment. . The student will spend 16 hours each week in the clinical setting participating on basic surgical procedures and demonstrating the development of personal skills.

Student Learning Outcomes

Assessment Measures

1. Prepare the operating room for plastic, pediatric, ophthalmic, vascular, orthopedic, neurosurgery, thoracic, cardiac, trauma and transplant surgery.	The student will demonstrate the proper preparation of the operating room during their clinical practice in the perioperative environment. Students will be evaluated and graded according to the Advanced Technical Skills Evaluation form (ATSE).
2. Identify and secure the supplies and equipment needed for procedures in the advanced specialties.	The student will demonstrate the knowledge of how to acquire the information regarding the correct supplies, instruments and equipment for surgical procedures by identifying preference cards, either in hard copy or computerized form.
3. Set up basic operative procedures in these specialties.	Using surgical aseptic technique, the student will set up the surgical field for advanced surgical procedures. Their clinical skills will be assessed using the Skills Assessment Form multiple times during the semester.
4. Assist with the preoperative preparation as defined by the Surgical Technologist's role; i.e. positioning equipment, skin prep equipment and draping supplies.	When appropriate the student will assist with the non-scrubbed preparation of the room as is within the scrub of practice. The clinical skills will be assessed on the Clinical Evaluation Tool as well as the required Case Logs.
5. Participate in the surgical procedures by passing instruments, sutures and supplies to the surgeon and assistants for the advanced specialties.	The student will complete the Surgical Rotation Documentation according to the proscribed criteria for their participatory role during the surgical intervention. Students will be evaluated and graded according to the Advanced Technical Skills Evaluation form (ATSE).
6. Students will demonstrate competency in professional development and scientific research related to surgical technology.	The student will complete written assignments that are designed to develop critical thinking skills.

Teaching Strategies

Pre and Post conferences

Assigned clinical procedures

Group discussions

Textbooks

Fuller, Joanna K., *Surgical Technology: Principles and Practice, 6th Edition*, Elsevier

Goldman, Maxine A., *Pocket Guide to the Operating Room, 3rd Edition*, F.A. Davis

GRADING

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 Withdrew without penalty

WU Unofficial Withdrawal (Counts as failure)

INC Term's Work Incomplete. Counts as "F" grade unless work is completed within six months.

Grades will be determined as described below:

Written assignments (2 case logs and 2 CE research articles)	20%
Advanced Technical Skills Evaluation	80%
Mid-Term Evaluation	pass/fail
Final Clinical Evaluation	pass/fail

Clinical performance is evaluated as Satisfactory (S) or Unsatisfactory (U). Performance that has been designated as “U” at the end of the course will result in failure of the course (F). Clinical Performance in the Practicum Courses must be at a satisfactory level to remain in the program. A failing grade of “F” for any clinical course will result in dismissal from the Program.

IMPORTANT:

Works cited in your case logs, homework, research papers and your CE article assignments will now follow a specific format. This simple process of citing works in your papers will allow your instructor to access the information and will provide solid evidence that your work is not plagiarized.

1. When you directly quote or paraphrase a portion of a text you should immediately follow it with a parenthetical citation. A reference should be provided at the end of the paper in the appropriate space that is now provided for you. (see: case log 2018)

EXAMPLE:

“Scleral buckling surgery is performed when the sensory layer of the retina becomes separated from the pigment epithelial layer.” (Fuller, p.676)

REFERENCE:

Fuller, J. Surgical Technology: Principles and Practice. 6th edition, 2013.

2. When using a website, it is important that you copy the direct link to the reference in its entirety. The instructor that is grading the paper must be able to click on the provided link and be brought to the exact page that you accessed the information from. The abbreviated version can appear in the text, but the full link must be listed in the reference section of the case log.

Example:

“A traditional open surgical incision (several centimeters long) is often required if the tear is large or complex. The surgeon makes the incision over the shoulder and detaches one of the shoulder muscles (deltoid) to better see and gain access to the torn tendon.” (orthoinfo.aaos.org)

REFERNECE:

<https://orthoinfo.aaos.org/en/treatment/rotator-cuff-tears-surgical-treatment-options/>

3. Websites that are used for reference and citation must be a legitimate source of information. Traditionally, .gov, .edu or .org sites are the most reliable, but exceptions can be made if the text that you use is directly related to a specific type of procedure, instrument, or piece of equipment that you are only able to access **through the vendor’s website only.**

EXAMPLE:

“PINNACLE® Hip Solutions is a modular cup system designed with a wide range of acetabular cup options, biological and mechanical fixation alternatives and advanced bearing technologies that allows surgeons the flexibility to choose intraoperatively.”

(depuysynthes.com)

REFERENCE:

<https://www.depuysynthes.com/hcp/hip/products/qs/PINNACLE-Hip-Solutions>

4. The REFERENCE box that is now found at the end of the Case Log should have all cited works listed in the order that they appear in the assignment.
5. **Failure to cite the text that you used will result in a penalty for each paper you submit.**
 - a. **CASE LOGS – failure to cite properly will result in a deduction off the total section that is plagiarized.**
 - b. **RESEARCH PAPERS: failure to cite properly or if plagiarism is suspected, the instructor may use a plagiarism detection program to decipher the quality of your content. Based on return % of uncited words that the program detects, the instructor has the right to subtract the total amount of plagiarized work from the total score. All inquiries and rebuttals will be seen before the program director and the Office of Academic Integrity.**
 - c. **CE ARTICLES: a penalty of (-10) for each question that is not cited properly.**

d. HOMEWORK: copy and pasting without citation is plagiarism and will be marked as a “0”.

Learner Objectives	Content/ Post Conference Discussion
WEEK 1	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Discuss the anatomy of plastic surgical procedures. 2. Demonstrate the use of a dermatome and mesh graft dermatome. 3. Discuss the proper use of a pneumatic tourniquet. 4. Demonstrate the proper preparation of a synthetic implant. 5. Demonstrate the proper method of draping for facial and hand procedures, 	<p>Plastic Surgical Procedures</p> <ol style="list-style-type: none"> 1. blepharoplasty 2. liposuction 3. rhinoplasty 4. split thickness skin grafts 5. carpal tunnel release 6. breast reconstruction/augmentation/reduction
WEEK 2	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Discuss special considerations for the pediatric patient. 2. Demonstrate the proper draping of pediatric patient.. 	<p>Pediatric Procedures</p> <ol style="list-style-type: none"> 1. pyloromyotomy 2. imperforate anus 3. reduction of intussusception <p>CASE LOG #1 DUE</p>
WEEK 3 & 4	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate the handling of ophthalmic sutures and instrumentation. 2. Demonstrate the use of supplies specific to ophthalmic procedures. 	<p>Ophthalmic Procedures;</p> <ol style="list-style-type: none"> 1. ectropion/entropion 2. cataract extraction 3. keratoplasty 4. scleral buckling 5. iridectomy 6. excision of pterygium <p>CASE LOG #2DUE</p>
WEEK 5	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate the use of neurosurgical supplies; ie raney clips, lentines, bone wax on a freer 2. Demonstrate the use of neurosurgical equipment; ie. Bipolar cautery, CUSA, Midas Rex 	<p>Neurosurgical Procedures</p> <ol style="list-style-type: none"> 1. peripheral nerve exploration 2. lumbar laminectomy 3. ventricular shunting 4. craniotomy
WEEK 6 & 7	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate the assembly and disassembly of power instruments. 2. Demonstrate the use of a pneumatic tourniquet. 	<p>Orthopedic Procedures</p> <ol style="list-style-type: none"> 1. bunionectomy 2. knee arthroscopy 3. ORIF ankle 4. rotator cuff repair 5. fixation of femoral heal fracture 6. total knee replacement 7. total hip replacement <p>WEEK 6 – CASE LOG #3 DUE and MIDSEMESTER EVALUATION COMPLETED</p>
WEEK 8	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Identify the various types of synthetic grafts. 2. Demonstrate the proper use of surgical supplies related to vascular surgery; i.e., embolectomy catheters, vessel loops and Doppler. 	<p>Vascular Procedures</p> <ol style="list-style-type: none"> 1. arteriovenous graft 2. embolectomy 3. femoral-popliteal bypass 4. insertion vena cava filters 5. amputations <p>RESEARCH ARTICLE #1 DUE</p>

WEEK 9	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate the proper method of preparation of under chest water drainage system. 2. Demonstrate the proper positioning of the patient for thoracotomy. 	<p>Thoracic Procedures</p> <ol style="list-style-type: none"> 1. bronchoscopy 2. thorocscopy 3. thorocotomy
WEEK 10	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Discuss the proper method of preparation of implantation of a pacemaker. 2. Discuss the principles of cardiopulmonary bypass 	<p>Cardiac Procedures</p> <ol style="list-style-type: none"> 1. Pacemaker/AICD implantation 2. valve replacement 3. coronary artery bypass <p>RESEARCH ARTICLE #2 DUE</p>
WEEK 11	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Discuss the proper preparation of cell saving supplies and equipment 2. Identify the process of notification of the Organ Donor Network 	<p>Trauma Sugery</p> <ol style="list-style-type: none"> 1. the multiple trauma patient 2. autotransfusion 3. evidence preservation 4. procedures <ol style="list-style-type: none"> a. subdural hematoma b. penetrating eye trauma c. flail chest d. aortic dissection e. splenic rupture f. liver injury g. skeletal injury <p>Transplant Surgery</p> <ol style="list-style-type: none"> 1. Criteria for donation and transplantation <ol style="list-style-type: none"> a. kidney b. heart c. lung d. cornea e. skin f. bone <p>RESEARCH ARTICLE #3 DUE 5/23</p>
WEEK 12	
<p>Upon completion of this unit the student will be able to</p> <ol style="list-style-type: none"> 1. Describe the signs and management of an anaphylactic reaction. 2. Describe the signs and management of a transfusion reaction 3. Describe the signs and management of local anesthesia toxicity 4. Describe the equipment and process of suctioning the nose and mouth. 5. Demonstrate competence in Basic Life Support. 	<p>Emergency Procedures</p> <ol style="list-style-type: none"> 1. Anaphylactic shock 2. Transfusion reaction 3. Local Anesthesia Toxicity 4. Suctioning 5. BLS <p>FINAL EVALUATION COMPLETED</p>