KINGSBOROUGH COMMUNITY COLLEGE  
Of  
The City University of New York  

**ST5P – Practicum III** 
Course Syllabus: 2019  
Prerequisites: ST 4, ST 4P  
Credit Hours: 3  
Pre/Co-requisites: BIO 51  
Practicum Hours: 16 hours/week  
Co-requisites: ST 5

**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.

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

**Teaching Strategies** Pre and Post conferences  
Assigned clinical procedures  
Group discussions

**Textbooks**

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>97-100</td>
</tr>
<tr>
<td>A</td>
<td>93-96</td>
</tr>
<tr>
<td>A-</td>
<td>90-92</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
</tr>
<tr>
<td>C+</td>
<td>78-79</td>
</tr>
<tr>
<td>C</td>
<td>75-77</td>
</tr>
<tr>
<td>C-</td>
<td>70-74</td>
</tr>
<tr>
<td>D+</td>
<td>66-69</td>
</tr>
<tr>
<td>D</td>
<td>60-65</td>
</tr>
<tr>
<td>F</td>
<td>&lt;60and below</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written assignments</td>
<td>20%</td>
</tr>
<tr>
<td>(2 case logs and 2 CE research articles)</td>
<td></td>
</tr>
<tr>
<td>Advanced Technical Skills Evaluation</td>
<td>80%</td>
</tr>
<tr>
<td>Mid-Term Evaluation</td>
<td>pass/fail</td>
</tr>
<tr>
<td>Final Clinical Evaluation</td>
<td>pass/fail</td>
</tr>
</tbody>
</table>
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:**

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)

   **REFERENCE:**

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:**

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.
### Learner Objectives

<table>
<thead>
<tr>
<th>WEEK 1</th>
<th>Content/ Post Conference Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upon completion of this unit the student will be able to</td>
<td>Plastic Surgical Procedures</td>
</tr>
<tr>
<td>1. Discuss the anatomy of plastic surgical procedures.</td>
<td>1. blepharoplasty</td>
</tr>
<tr>
<td>2. Demonstrate the use of a dermatome and mesh graft dermatome.</td>
<td>2. liposuction</td>
</tr>
<tr>
<td>3. Discuss the proper use of a pneumatic tourniquet.</td>
<td>3. rhinoplasty</td>
</tr>
<tr>
<td>4. Demonstrate the proper preparation of a synthetic implant.</td>
<td>4. split thickness skin grafts</td>
</tr>
<tr>
<td>5. Demonstrate the proper method of draping for facial and hand procedures,</td>
<td>5. carpal tunnel release</td>
</tr>
<tr>
<td></td>
<td>6. breast</td>
</tr>
<tr>
<td></td>
<td>reconstruction/augmentation/reduction</td>
</tr>
</tbody>
</table>

### WEEK 2

<table>
<thead>
<tr>
<th>Upon completion of this unit the student will be able to</th>
<th>Pediatric Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Discuss special considerations for the pediatric patient.</td>
<td>1. pyloromyotomy</td>
</tr>
<tr>
<td>2. Demonstrate the proper draping of pediatric patient.</td>
<td>2. imperforate anus</td>
</tr>
<tr>
<td></td>
<td>3. reduction of intussusception</td>
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<tr>
<td></td>
<td><strong>CASE LOG #1 DUE</strong></td>
</tr>
</tbody>
</table>

### WEEK 3 & 4

<table>
<thead>
<tr>
<th>Upon completion of this unit the student will be able to</th>
<th>Ophthalmic Procedures;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the handling of ophthalmic sutures and instrumentation.</td>
<td>1. ectropion/entropian</td>
</tr>
<tr>
<td>2. Demonstrate the use of supplies specific to ophthalmic procedures.</td>
<td>2. cataract extraction</td>
</tr>
<tr>
<td></td>
<td>3. keratoplasty</td>
</tr>
<tr>
<td></td>
<td>4. scleral buckling</td>
</tr>
<tr>
<td></td>
<td>5. iridectomy</td>
</tr>
<tr>
<td></td>
<td>6. excision of pterygium</td>
</tr>
<tr>
<td></td>
<td><strong>CASE LOG #2 DUE</strong></td>
</tr>
</tbody>
</table>

### WEEK 5

<table>
<thead>
<tr>
<th>Upon completion of this unit the student will be able to</th>
<th>Neurosurgical Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the use of neurosurgical supplies; ie raney clips, lentines, bone wax on a freer</td>
<td>1. peripheral nerve exploration</td>
</tr>
<tr>
<td>2. Demonstrate the use of neurosurgical equipment; ie. Bipolar cauterity, CUSA, Midas Rex</td>
<td>2. lumbar laminectomy</td>
</tr>
<tr>
<td></td>
<td>3. ventricular shunting</td>
</tr>
<tr>
<td></td>
<td>4. craniotomy</td>
</tr>
</tbody>
</table>

### WEEK 6 & 7

<table>
<thead>
<tr>
<th>Upon completion of this unit the student will be able to</th>
<th>Orthopedic Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the assembly and disassembly of power instruments.</td>
<td>1. bunionectomy</td>
</tr>
<tr>
<td>2. Demonstrate the use of a pneumatic tourniquet.</td>
<td>2. knee arthroscopy</td>
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<tr>
<td></td>
<td>3. ORIF ankle</td>
</tr>
<tr>
<td></td>
<td>4. rotator cuff repair</td>
</tr>
<tr>
<td></td>
<td>5. fixation of femoral heal fracture</td>
</tr>
<tr>
<td></td>
<td>6. total knee replacement</td>
</tr>
<tr>
<td></td>
<td>7. total hip replacement</td>
</tr>
<tr>
<td></td>
<td><strong>WEEK 6 – CASE LOG #3 DUE and MIDSEMESTER EVALUATION COMPLETED</strong></td>
</tr>
</tbody>
</table>

### WEEK 8

<table>
<thead>
<tr>
<th>Upon completion of this unit the student will be able to</th>
<th>Vascular Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Identify the various types of synthetic grafts.</td>
<td>1. arteriovenous graft</td>
</tr>
<tr>
<td>2. Demonstrate the proper use of surgical supplies related to vascular surgery; i.e., embolectomy catheters, vesseloops and Doppler.</td>
<td>2. embolectomy</td>
</tr>
<tr>
<td></td>
<td>3. femoral-popliteal bypass</td>
</tr>
<tr>
<td></td>
<td>4. insertion vena cava filters</td>
</tr>
<tr>
<td></td>
<td>5. amputations</td>
</tr>
<tr>
<td></td>
<td><strong>RESEARCH ARTICLE #1 DUE</strong></td>
</tr>
</tbody>
</table>
### WEEK 9

Upon completion of this unit the student will be able to

1. Demonstrate the proper method of preparation of under chest water drainage system.
2. Demonstrate the proper positioning of the patient for thoracotomy.

<table>
<thead>
<tr>
<th>Thoracic Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. bronchoscopy</td>
</tr>
<tr>
<td>2. thoracoscopy</td>
</tr>
<tr>
<td>3. thorocotomy</td>
</tr>
</tbody>
</table>

### WEEK 10

Upon completion of this unit the student will be able to

1. Discuss the proper method of preparation of implantation of a pacemaker.
2. Discuss the principles of cardiopulmonary bypass

<table>
<thead>
<tr>
<th>Cardiac Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pacemaker/AICD implantation</td>
</tr>
<tr>
<td>2. valve replacement</td>
</tr>
<tr>
<td>3. coronary artery bypass</td>
</tr>
</tbody>
</table>

RESEARCH ARTICLE #2 DUE

### WEEK 11

Upon completion of this unit the student will be able to

1. Discuss the proper preparation of cell saving supplies and equipment
2. Identify the process of notification of the Organ Donor Network

<table>
<thead>
<tr>
<th>Trauma Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. the multiple trauma patient</td>
</tr>
<tr>
<td>2. autotransfusion</td>
</tr>
<tr>
<td>3. evidence preservation</td>
</tr>
<tr>
<td>4. procedures</td>
</tr>
<tr>
<td>a. subdural hematoma</td>
</tr>
<tr>
<td>b. penetrating eye trauma</td>
</tr>
<tr>
<td>c. flail chest</td>
</tr>
<tr>
<td>d. aortic dissection</td>
</tr>
<tr>
<td>e. splenic rupture</td>
</tr>
<tr>
<td>f. liver injury</td>
</tr>
<tr>
<td>g. skeletal injury</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transplant Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Criteria for donation and transplantation</td>
</tr>
<tr>
<td>a. kidney</td>
</tr>
<tr>
<td>b. heart</td>
</tr>
<tr>
<td>c. lung</td>
</tr>
<tr>
<td>d. cornea</td>
</tr>
<tr>
<td>e. skin</td>
</tr>
<tr>
<td>f. bone</td>
</tr>
</tbody>
</table>

RESEARCH ARTICLE #3 DUE 5/23

### WEEK 12

Upon completion of this unit the student will be able to

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.

<table>
<thead>
<tr>
<th>Emergency Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Anaphylactic shock</td>
</tr>
<tr>
<td>2. Transfusion reaction</td>
</tr>
<tr>
<td>3. Local Anesthesia Toxicity</td>
</tr>
<tr>
<td>4. Suctioning</td>
</tr>
<tr>
<td>5. BLS</td>
</tr>
</tbody>
</table>

FINAL EVALUATION COMPLETED