

Northeast Ohio Medical University

College of Medicine

Surgery Clerkship, SURG 83002
5 Weeks / 5 Credit Hours
Course Syllabus
Academic Year – 2023 - 2024

Table of Contents

COURSE LEADERSHIP.....	4
Surgery Chair	4
Associate Dean of Experiential Education.....	4
Clinical Experience Director.....	4
Clerkship Site Directors	4
Coordinator Team.....	4
BASIC COURSE INFORMATION	5
Course Description	5
Course Enrollment Requirements	5
CLERKSHIP OBJECTIVES	5
Clerkship Objectives	5
CLERKSHIP RESOURCES	6
Primary Resources.....	6
Secondary Resources.....	6
American College of Surgeons ACS/ASE Medical Student Simulation-Based Surgical Skills Curriculum	6
American Urological Association (AUA) Medical Student Curriculum.....	6
Online Resources.....	6
Association of periOperative Registered Nurses (AORN) Safe Surgery Together.....	6
Aquifer	6
CANVAS.....	6
OASIS.....	7
Surgery 101	7
Surgical Infection Society (SIS).....	7

Surgical Video Technique Reference Videos - YouTube	7
Touch Surgery Enterprise from Medtronic App.....	7
Universal Precautions/Gowning/Gloving/Sterile Technique/Draping.....	7
uWorld	7
World Health Organization (WHO)	7
CLERKSHIP STRUCTURE	7
Orientation	7
Pre-Reporting Assignment.....	7
First Day Reporting	8
Call and Work Hours	8
Night Float and Evening Call.....	8
Ambulatory Experience	8
LEARNING ACTIVITIES.....	8
Instructional Methods/Learning Strategies	8
Overview.....	9
Student-Specified Individual Learning Goals.....	10
Clinical Skill Experience Portfolio (CSEP)	10
Core Educational Videos.....	11
Web Based Lectures	12
Formative and Mid-course Feedback.....	12
Aquifer Wise-MD Modules	12
uWorld.....	13
Practice-Based Learning and Improvement (PBLI) Project	13
Surgery National Board of Medical Examiners (NBME) Practice Subject Examination	13
Self-Directed Educational Resources.....	14
World Health Organization (WHO)	14
Association of periOperative Registered Nurses (AORN) Safe Surgery Together.....	14
Surgical Infection Society (SIS)	14
American College of Surgeons ACS/ASE Medical Student Simulation-Based Surgical Skills Curriculum	14
COURSE GRADING AND ASSESSMENT	15
Grading Assignment Table.....	15

National Board of Medical Examiners (NBME) Subject Examination	15
Final Clerkship Grade Categories.....	16
Grade Dispute.....	17
Course Remediation	17
Committee on Academic and Professional Progress (CAPP) Standards for Unsatisfactory Performance and Academic Action:.....	17
COURSE POLICIES & PROCEDURE.....	17
Attendance and Time Off Clerkship	17
Blood Born Pathogen Policy	18
Curriculum Contact Hours	18
Clinical Supervision and Safety.....	18
Mistreatment.....	18
Professionalism.....	18
Subject Examination and Illness Protocol	18
Safety/Clinical Supervision	19
Student Accessibility Services.....	20
APPENDICES	21
Appendix A: Aquifer Wise-MD Modules	21
Appendix B: CSEP.....	22

COURSE LEADERSHIP

Dr. Drazen Petrinc is Clinical Experiential Director for the Surgery Clerkship. He is responsible for ensuring that implementation of the Surgery Clerkship curriculum is comparable across all teaching sites. Dr. Petrinc and the respective Clinical Site Directors can be reached by email for any student questions or concerns and will be available for face-to-face appointments via teleconference or in person. The Clerkship Site Directors and their institutions are also listed below. These are the institutions and residency training programs that have committed themselves to the Northeast Ohio Medical University College of Medicine for participation in the undergraduate training of the NEOMED students.

Surgery Chair		
Drazen Petrinc, MD		dpetrine@neomed.edu
Associate Dean of Experiential Education		
Susan Nofziger, MD		Snofziger@neomed.edu
Clinical Experience Director		
Drazen Petrinc, MD		Dpetrine@neomed.edu
Clerkship Site Directors		
Joseph A. Saadey, MD Clerkship Director	Aultman Hospital	joseph.saadey@aultman.com
Sophia Horattas, MD Clerkship Director	Cleveland Clinic Akron General	horatts@ccf.org
Kevin Baier, MD Clerkship Director	Cleveland Clinic Fairview Louis Stokes Cleveland Veterans Affairs Medical Center	baierk@ccf.org
Katherine Kelly, MD Clerkship Director		katherine.kelly2@va.gov
Tiffany Marchand, MD Clerkship Director	Mercy Health St. Elizabeth Youngstown Hospital	tmarchand@mercy.com
Kevin El-Hayek, MD Clerkship Director	MetroHealth Medical Center	kelhayek@metrohealth.org
Stephanie Goare, MD Clerkship Director	OhioHealth Riverside Methodist Hospital	stephanie.goare@ohiohealth.com
Drazen Petrinc, MD Clerkship Director	Summa Health System – Akron Campus	dpetrine@neomed.edu
Peter DeVito, MD Clerkship Director	Trumbull Regional Medical Center	pmd@neomed.edu
Rick Gemma, DO Clerkship Director	Western Reserve Hospital	rgemma@westernreservehospital.org
Lauren Donatelli-Seyler, MD Clerkship Director	University Hospital Cleveland Medical Center	Lauren.donatelli- seyler@uhhospitals.org
Coordinator Team		
Belinda Sasala M3/M4 Curriculum Manager		m3clerkships@neomed.edu bsasala@neomed.edu
Debra Edwards M3/M4 Curriculum Coordinator II		m3clerkships@neomed.edu dedwards1@neomed.edu
Stephanie Arnold Clinical Site Coordinator – Summa Health Systems		Sarnold1@neomed.edu

Elizabeth Clary Clinical Site Coordinator – Aultman Hospital	eclary@neomed.edu
William Wyss Clinical Site Coordinator - University Hospitals	wwyss@neomed.edu

BASIC COURSE INFORMATION

Course Description

The Northeast Ohio Medical University College of Medicine M3 Surgery Clerkship is a five-week clinical rotation. The core curriculum is designed to provide for the acquisition of clinical competence and basic knowledge in Surgery, the development of interpersonal skills and the promotion of attitudes commensurate with high standards of professionalism. A foundation for continued learning and self-improvement will be established, and an awareness of the role of systems within Surgery practice will be developed. The core competencies will serve as a framework for the educational experiences that include didactics, case conferences, self-directed learning assignments and patient care activities.

Course Enrollment Requirements

- Successful completion of M1 curriculum.
- Successful completion of M2 curriculum.

Trainings	Screenings	Immunizations
<ul style="list-style-type: none"> • BLS • OSHA • ACLS • HIPAA • Responsible Conduct of Research Human Subjects Research 	<ul style="list-style-type: none"> • Criminal Background Check • Toxicology Screen • TB Test 	<ul style="list-style-type: none"> • Hepatitis B, MMR, Tdap, Varicella (required upon matriculation) • Flu shot • COVID vaccination required at some sites and strongly encouraged at others.

CLERKSHIP OBJECTIVES

Clerkship educational program objectives are consistent across all seven Clerkships and are aligned with [NEOMED's College of Medicine Educational Program Objectives \(COM EPO\)](#). Throughout the Clerkships, students will continue to learn and refine skills, knowledge, attitudes, and professional behavior to move towards demonstrating entrustable behaviors. These competencies form the basis for the Student Performance Evaluation (SPE) that is used to assess student performance in all Clerkships.

By the end of the Clerkship, students will:

Clerkship Objectives	Alignment to COM EPOs
1. Gather patient information in a hypothesis-directed manner and perform an accurate physical examination for those patients presenting with acute or chronic care needs related to trauma, post-operative fever or malignancy.	1.1, 1.2
2. Develop a prioritized differential diagnosis with appropriate prioritization and recommended diagnostic testing for patients presenting with bodily injury or symptoms such as abdominal pain.	1.3
3. Generate an assessment and management plan and reasoning for the plan for patients presenting with life-threatening, surgical emergencies and acute or chronic care needs related to abdominal hernias and peripheral artery disease.	1.4
4. Apply medical knowledge of clinical disorders and surgical technique to provide	2.1

care for patients undergoing routine technical procedures such as laceration repair, endoscopy and exploratory laparotomy while applying basic sterile technique.	
5. Apply knowledge of evidence-based medicine to answer patient care related questions.	3.1
6. Demonstrate empathetic, honest, and bi-directional communication with patients and families.	4.2
7. Demonstrate clear, effective, and complete communication with the interprofessional health care team in both written and verbal forms.	7.1
8. Fulfill one's professional obligations by displaying professional behavior and demonstrating a commitment to ethical principles (e.g., respecting patient autonomy and responding to patient needs that supersede self-interest).	5.1, 5.2, 5.3
9. Formulate individual learning goals based on personal strengths and limitations, respond appropriately to feedback and seek help when needed.	8.1
10. Identify and address potential barriers to communication with patients, families, and colleagues, including linguistic, educational, and cultural diversity, the psychosocial determinants of health, and patient/family preferences.	4.1

CLERKSHIP RESOURCES

Reading during the Clerkship should include both textbooks and journal literature. Students should read about specific problems encountered with their own patients, as well as subjects of general importance in surgery. Specific reading assignments from both text and the periodic literature may be required at the discretion of the Clerkship Site Director or other designees.

Primary Resources

1. Lawrence, Peter. Essentials of General Surgery and Surgical Specialties, 6th Edition. Philadelphia: Lippincott Williams and Wilkins, December 2018.

Secondary Resources

American College of Surgeons ACS/ASE Medical Student Simulation-Based Surgical Skills Curriculum

- o <https://www.facs.org/for-medical-professionals/education/programs/acs-ase-medical-student-simulation-based-surgical-skills-curriculum/>

American Urological Association (AUA) Medical Student Curriculum

- o <https://www.auanet.org/education/auauniversity/for-medical-students/medical-students-curriculum>

Online Resources

Association of periOperative Registered Nurses (AORN) Safe Surgery Together [Comprehensive Surgical Checklist](#)

Aquifer

Resource that provides essential knowledge and clinical reasoning skills for health profession students.

CANVAS

The online learning and collaboration system, CANVAS, will be used in M3 to post Clerkship educational materials including, but not limited to, course and Clerkship syllabi, Clerkship

materials and core curriculum lecture videos. The web address for CANVAS is: <https://neomed.instructure.com/>. Your Office 365 credentials are used to login into the system.

OASIS

It is the sole responsibility of the student to check for updates daily. Grades, CSEP submittal, and schedules will be accessible through OASIS. The web address for OASIS is <https://neomed.oasisscheduling.com/>. Your Office 365 credentials are used to login into the system.

Surgery 101

Free I-Tunes downloadable podcasts on general surgery and specialties

Surgical Infection Society (SIS)

- [Sterile Technique](#)
- [SIS Videos](#)
- [SIS summary card](#)

Surgical Video Technique Reference Videos - YouTube

- [Surgical Positioning, Prepping and Draping DVD](#)
- [Introduction to Asepsis DVD Sample clip:](#)
- [Basic Surgical Skills by the Royal College of Surgeons](#)

Touch Surgery Enterprise from Medtronic App

Excellent app for reviewing steps of common surgical procedures in a simulated fashion prior to cases. HIGHLY RECOMMEND. <https://www.touchesurgery.com>

Universal Precautions/Gowning/Gloving/Sterile Technique/Draping

- [Surgery Clerkship 101: The OR Essentials](#)
- [Universal Precautions](#)
- [Draping Sterile Field](#)
- Patient Safety- "Time Out"

uWorld

Resource that provides clinical and knowledge-based questions as a study option. <https://lp.uworld.com>

World Health Organization (WHO)

[Surgical Checklist Article](#)

CLERKSHIP STRUCTURE

Orientation

The Clerkship begins with orientation focusing on Clerkship goals and objectives, student responsibilities, schedules, and assessment methods. Students will be provided information on relevant hospital policies and procedures, personnel contact information, meal allowances (if applicable) and parking. The orientation will include instruction on the risks of infection, techniques for reducing the spread of infection and site-specific hospital protocol to be followed in the event of exposure to an infectious or environment hazard or other injury and Operating Room (OR) protocol.

Pre-Reporting Assignment

In preparation for day-one orientation, students are to review materials on Universal Precautions/Gowning/Gloving/Sterile Technique/Draping. This includes both the Surgery Infection Society (SIS) videos and the summary card for reference. The assignment is on CANVAS.

- [Surgery Clerkship 101: The OR Essentials](#)
- [Universal Precautions](#)
- [Draping Sterile Field](#)

First Day Reporting

First day reporting information varies by clinical site. Please see OASIS for first day reporting information.

Call and Work Hours

All 5-week Clerkships (Family Medicine, Obstetrics and Gynecology, Pediatrics, Psychiatry, and Surgery) will schedule **one half day of independent study time during the last week of the Clerkship**. This time can be used to make up missed clinical assignments from earlier in the Clerkship, complete enrichment activities, or as time to prepare for the upcoming subject exam.

Night Float and Evening Call

Call schedules may vary by Clerkship teaching site. Saturday and Sunday call will vary by rotation site. At the beginning of each Clerkship, the Clerkship Site Director will assign call schedules and provide information regarding student responsibilities, sleeping facilities, and meal reimbursements (if provided). Students on call must be available as required at all times.

In compliance with guidelines established by the Liaison Committee on Medical Education (LCME) and in accordance with the NEOMED Curriculum Contact Hours Policy, students will not be required to work longer hours than residents.

Ambulatory Experience

Students will spend time in outpatient clinics as well as in private offices of surgeons.

LEARNING ACTIVITIES

Students will have access to lectures, either live or virtual, and the opportunity to participate in case conferences, depending on the Clerkship site. Students at all sites are required to attend any lectures, conferences or Grand Rounds listed on their schedule for their site. Students will be assigned weekly learning activities and questions to ensure that high yield topics are covered within each Clerkship.

Instructional Methods/Learning Strategies

A variety of learning strategies will be used during the Clerkship to help students achieve their goals. Strategies include but are not limited to:

- Patient Encounters (inpatient, private office, clinics, hospice centers)
- Web-Based Lectures (assigned core modules are on Canvas)
- Teaching Rounds
- Small Group Discussions
- Conferences and Lectures
- Core Educational Lecture Videos
- Web-Based Clinical Modules (Wise-MD – Aquifer)
- Practice-Based Learning and Improvement (PBLI) Project
- Textbooks

Organized reading and study materials will be available to support learning about assigned subjects and surgical problems of assigned patients, and to prepare for comprehensive written examinations. This source material will include enumeration of concepts to be learned and specific details pertinent to these concepts. These materials will be supplemented by conferences and lectures that may include oral quiz sessions covering the assigned topics and by selective patient assignments appropriate to the curriculum

plan.

The net effect of the several avenues of implementation is to provide a framework designed to help the student acquire the knowledge of selected surgical subjects, to appreciate the pathophysiology involved, to use the scientific method of problem solving, to develop proficiency in selected basic skill, and to develop a professional attitude of responsibility and empathy toward patients. A significant advantage of this overall approach is early development of the capabilities and habits which will support each medical student in a life-long study of medicine.

Overview

Week	Topics	Aquifer Modules / American College of Surgeon Videos	Highly Recommended	Other NEOMED Requirements <i>Due Sunday by 11:59 pm</i>
Pre-Work			<u>Wise MD Skills</u> <ul style="list-style-type: none"> Foley Catheter Placement Suturing and Instrument Tie Surgical Instruments Two Handed Knot Tie 	<u>Pre-Reporting Video Reviews</u> <ul style="list-style-type: none"> Surgery Clerkship 101: The OR Essentials Universal Precautions Draping Sterile Field
1	<ul style="list-style-type: none"> Perioperative Care Postoperative Care Fluids & Electrolytes 	<u>American College of Surgery Videos</u> <ul style="list-style-type: none"> Perioperative Care Postoperative Care Fluids & Electrolytes 	<u>Wise MD On Call</u> <ul style="list-style-type: none"> Fever and Sepsis 	<ul style="list-style-type: none"> Update CSEP Develop & Submit Individualized Learning Goals (ILG) uWorld Questions
2	<ul style="list-style-type: none"> Abdominal Pain Gastrointestinal Hemorrhage Bowel Obstruction 	<u>American College of Surgery Videos</u> <ul style="list-style-type: none"> Abdominal Pain Gastrointestinal Hemorrhage <u>Wise MD</u> <ul style="list-style-type: none"> Bowel Obstruction 	<u>Wise MD On Call</u> <ul style="list-style-type: none"> Abdominal Pain 	<ul style="list-style-type: none"> Update CSEP uWorld Questions
3	<ul style="list-style-type: none"> Breast Endocrine Skin & Soft Tissue 	<u>American College of Surgery Videos</u> <ul style="list-style-type: none"> Breast Endocrine Skin & Soft Tissue Lesions 		<ul style="list-style-type: none"> Update CSEP uWorld Questions
4	<ul style="list-style-type: none"> Pancreatitis Cholecystitis 	<u>American College of Surgery Videos</u>	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Update CSEP uWorld

	<ul style="list-style-type: none"> • Jaundice 	<ul style="list-style-type: none"> • Jaundice • <i>Wise MD</i> • Pancreatitis • Cholecystitis 		Questions
5	No Cases/Topics Assigned	<ul style="list-style-type: none"> • Submit update on SMART goals (personal goals for the rotation) • Midpoint NBME (if Surgery falls prior to Emergency Medicine) 		<ul style="list-style-type: none"> • Complete CSEP • Submit updated SMART goals • Complete practice clerkship NBME <i>(will receive voucher via email)</i>

Student-Specified Individual Learning Goals

The Liaison Committee on Medical Education (LCME), the accrediting body for medical schools, expects that the curriculum provides opportunities for self-directed learning experiences that involve medical students’ self-assessment of learning needs and the independent identification, analysis, and synthesis of information relative to their learning needs. Therefore, at the beginning of each Clerkship rotation, each student will identify 2-3 learning goals, including a personal wellness goal. At the end of each Clerkship, students will reflect on their attainment of their self-identified goals. Students will submit their goals and a summary of the achievement of those goals via CANVAS, which will provide a cumulative record of their personal learning goals for the entire Clerkship year. Students also will be expected to make their site directors aware of their goals so that the Clerkship learning experience may be enhanced and/or feedback provided accordingly. Guidelines for writing SMART goals are provided on the CANVAS site.

Specifically, students must upload the initial goals for each Clerkship by 11:59 p.m., Sunday of the first week of each Clerkship. At the end of the Clerkship, and prior to the final assessment meeting, students must record their progress toward achievement of each goal and prepare to discuss the status with their site director. The progression will be submitted on CANVAS by the last Friday of the Clerkship at 5:00 pm.

Clinical Skill Experience Portfolio (CSEP)

The Surgery Clinical Skills Experience Portfolio (CSEP) is an electronic checklist of clinical experiences developed for the Clerkship and designed for students to use to track their progress in developing knowledge and skill in the following areas:

- Diagnoses/Symptoms/Clinical Scenarios
- Physical Examinations
- Procedures/Technical Skills
- Additional Clinical Activities
- Additional Learning Activities

The CSEP list represents the minimum number and type of experiences required in the Clerkship. The expectation is that you will participate in a broader array of clinical experiences that become available to you during your rotation. A list of supplemental or alternative activities is also available as an [Appendix](#) and in CANVAS in the unlikely event that a student is not exposed to a particular experience.

Students are required to:

1. update the CSEP in OASIS on a weekly basis,

- review their CSEP progression and completion of items with the Clerkship Site Director at the midpoint,
- review the CSEP progress and completion of items with the Clerkship Site Director at the end of the Clerkship.

Surgery Clerkships Clinical Skills Experience Portfolio (CSEP)		
Diagnosis		
• Abdominal Pain	• Appendicitis	• Cholecystitis
• Diverticulitis	• Hernia	• Peripheral Arterial Disease
• Post-Operative Fever	• Solid Organ Malignancy (e.g. breast, colon)	• Trauma
Physical Examination		
• Abdominal Examination		
Procedures/Technical Skills		
• Abdominal Incision	• Cholecystectomy (open or laparoscopic)	• Endoscopy
• Exploratory Laparotomy	• Foley Catheter Placement	• Hernia Repair
• Intubation	• Laceration Repair/Suturing	• Sterile Technique (including prepping, draping, sterile field)
• Sutures/Staples Removal		
Additional Clinical Activities		
• Complete Two Observed H&Ps	• Document Admission Orders	• Observe Informed Consent
• Observe Procedural Time-Out		
Additional Learning Activities		
• Complete PBLI Presentation.		
• Complete required WISE-MD cases and ACS/ASE Medical Student Core Curriculum Videos.		
• Complete mid-course feedback session with site director.		
• Complete Surgery NBME subject practice exam prior to 10-week mid-point and share results with site director.		
• Complete weekly assigned uWorld Questions.		
• Develop and submit personal rotation goals by end of week one.		
• Primary contact with at least 25 patients.		
• Review progress on personal goals midway and submit progress by end of Clerkship.		

Core Educational Videos

In order to broaden the student's knowledge and understanding of the scope of surgical practice, a core educational video series – located on CANVAS - has been identified to include common topics in both general surgery as well as the specialties and subspecialties. As proactive learners, students are encouraged to set a timetable for viewing the lectures during the Clerkship. The lectures are intended to help students gain insight into the practice of surgery and to prepare for their CSA and National Board subject examination. Videos are available on CANVAS.

Educational Video Topics

- Diagnosis and Management of Benign Breast Disease
- Diagnosis and Management of Malignant Breast Disease
- Non-Melanoma Skin Cancers
- Thyroid and Parathyroid Surgery

Web Based Lectures

Six core American College of Surgeons (ACS) modules are assigned for independent study. We recommend you focus on completing these modules early in your surgery rotation. Videos can be found on the American College of Surgeons website under “Education” and “ACS/ASE Medical Student Core Curriculum.” To navigate the modules, go to <https://www.facs.org/education/program/nts-med-students> and click on the links below each module. See CANVAS for assigned modules.

Formative and Mid-course Feedback

The Surgery Clerkship places emphasis on providing students with continuous feedback on their knowledge, skills, and attitudes. Your final grade report form will reflect the feedback provided to you throughout the rotation.

Mid-rotation and end-of-rotation communication will be scheduled during the Clerkship for you to:

1. discuss your performance based on the assessment forms completed by faculty during the week of the rotation and a self-assessment of your performance,
2. review clinical progress via your Clinical Skills Experience Portfolio (CSEP),
3. plan activities for the week to match your learning objectives and individual learning goals, and
4. address any problems or concerns.

Aquifer Wise-MD Modules

WISE-MD modules are intended to be a transition from didactic presentation of information above to the self-directed learning format students will need to develop and follow in a lifelong study of medicine. Students are encouraged to access the Aquifer website and to complete modules in those areas where students have had minimal clinical exposure. Students are required to complete the four (4) Wise-MD Case Modules listed in bold in the table below. See CANVAS for detailed instructions for registration and log-in information.

See CANVAS for assigned Aquifer modules.

Surgery Clerkship Required Aquifer Modules		
Wise-MD Skills		
• Foley Catheter Placement	• Surgical Instruments	• Suturing and Instrument Tie
• Two Handed Knot Tie		
Wise MD On Call		
• Abdominal Pain	• Fever and Sepsis	

uWorld

You are required to complete uWorld questions throughout the Clerkship. See CANVAS for specific assigned questions and due dates. www.uworld.com

uWorld Question Topics

- Week 1 – Perioperative Care; Postoperative Care; Fluids & electrolytes
- Week 2 – Abdominal Pain; Gastrointestinal Hemorrhage; Bowel Obstruction
- Week 3 – Breast; Endocrine; Skin & Soft Tissue
- Week 4 – Pancreatitis; Cholecystitis; Jaundice

Practice-Based Learning and Improvement (PBLI) Project

Students are required to complete a self-directed Practice-based Learning and Improvement (PBLI) Project specific to each Clerkship (except in Emergency Medicine). PBLI is important because physicians should monitor the quality of their own work, improve their work and keep up with developments in medicine. PBLI is based on the belief that physicians should be leaders in making change rather than reacting to changes made by others and the belief that positive changes in one's own practice behavior can have positive effects on large systems. Specific examples include increasing preventive care, improving chronic disease management and enhancing patient safety.

The goals of the project are to:

1. investigate and evaluate patient care practices,
2. appraise and assimilate scientific evidence, and
3. improve patient care practices.

For each Clerkship (except Emergency Medicine), students will be required to:

1. formulate a focused clinical question directly related to a current patient care situation;
2. complete the PPICO for the clinical question;
3. conduct a literature search to answer the question;
4. evaluate the literature selection for relevance to the question, and reliability and validity of the article; and
5. make a formal presentation of the case, clinical question, search process and findings based on the requirements of your site.

Failed Practice-Based Learning and Improvement (PBLI) project:

- Students may be asked to repeat project with new topic in same specialty discipline as the failed project.
- Students must contact the Course Director to discuss the remediation process.

The net effect of the several avenues instruction is to provide a framework designed to help the student acquire the knowledge of selected subjects in Surgery, to appreciate the pathophysiologic mechanisms involved, to use the scientific method of problem solving, to develop proficiency in selected basic skills and to develop a professional attitude of responsibility and empathy toward patients. A significant advantage of this overall approach is early development of the capabilities and habits which will support each medical student in a life-long study of medicine.

Surgery National Board of Medical Examiners (NBME) Practice Subject Examination

It is highly recommended that students use the full 10-week Surgery/Emergency Medicine/PPC time period to study for the Surgery Subject Examination. Students will have limited time during the Surgery Clerkship to focus on studying. For the Surgery Clerkship, **students are required to complete the practice subject examination 5 weeks into the 10-week study period.** Email your site directors the results of your

practice examination once you have taken it. The first practice subject examination is taken via a voucher provided by email from NEOMED.

It is strongly recommend taking a second practice test at least one week prior to the subject examination for self-assessment purposes and insight into how to focus study in the final week (or more) of the Clerkship. The Surgery Practice Exam is part of Clinical Science Mastery Series and can be purchased by logging into NBME Self-Assessment Services at <https://www.nbme.org/taking-assessment/self-assessments>.

Consider using [study tips](#) for NBME subject exams put together by NEOMED students in the Class of 2018.

Self-Directed Educational Resources

World Health Organization (WHO)

- [Surgical Checklist Article](#)

Association of periOperative Registered Nurses (AORN) Safe Surgery Together

- [Comprehensive Surgical Checklist](#)

Surgical Infection Society (SIS)

- [Sterile Technique](#)
- [SIS Videos](#)
- [SIS summary card](#)

American College of Surgeons ACS/ASE Medical Student Simulation-Based Surgical Skills Curriculum

- <https://www.facs.org/for-medical-professionals/education/programs/acs-ase-medical-student-simulation-based-surgical-skills-curriculum/>

Recommended Modules	
Year	Module
1	Acute bleeding – packing and tourniquet module
1	Abdominal examination module and videos
1	Basic vascular examination
1	Breast exam module
1	Male groin exam module and video
1	Digital rectal exam module
2	Basic gastric tube placement
2	Nasogastric tubes modules
2	Surgical drains care and removal module (focus on Chest Tubes A&B)
3	Basic stoma care module
3	Central venous line insertion module
3	Thoracentesis module and video
3	Basic knot tying and suturing modules

COURSE GRADING AND ASSESSMENT

Grading Assignment Table

Assignment/ Assessment	Grade Criteria	Type of Feedback	Date Scheduled/Due
Clinical Performance			
Student Performance Evaluation (SPE)	<ul style="list-style-type: none"> Behavioral anchors for each rating in each competency and formula for final rating/grade 	<ul style="list-style-type: none"> Rubric with Narrative Feedback 	<ul style="list-style-type: none"> Feedback is recorded throughout the Clerkship via student evaluation forms. The Clinical Grade will be generated at the conclusion of the course by the Clerkship Site Director submitted to for final review and grade assignment to the Clinical Experience Director. Documentation of fulfillment of professional responsibilities (met/not met) is completed by Course Coordinator(s). <i>Items include: onboarding, CSEP completion, uWorld question completion, Aquifer cases, attendance, as well as other related administrative items. Failure to meet these responsibilities in a timely manner will result in a "Below Expectations" on the SPE.</i>
Clinical Skills Experience Portfolio (CSEP)	<ul style="list-style-type: none"> Satisfactory completion required 	<ul style="list-style-type: none"> Checklist of required activities 	<ul style="list-style-type: none"> Mid-course and end-of-rotation meeting with Site Director.
Practice-Based Learning and Improvement Project (PBLI)	<ul style="list-style-type: none"> Satisfactory completion required 	<ul style="list-style-type: none"> Checklist of required items 	<ul style="list-style-type: none"> Completion by the last Friday of the course.
Examination(s)			
National Board of Medical Examiners (NBME) Subject Examination	<ul style="list-style-type: none"> See Table below 	<ul style="list-style-type: none"> Numerical score and Fail, Pass, or Pass with Commendation 	<ul style="list-style-type: none"> Last day of the course.

National Board of Medical Examiners (NBME) Subject Examination

The National Board of Medical Examiners (NBME) Subject Examination is the final written examination for each Clerkship except Emergency Medicine. It will be administered at the NEOMED Rootstown Campus or at designated Prometric Center in Columbus area the last day of each Clerkship. For additional details, see academic policy titled *Administration of Examinations at Remote Sites* in the [Compass](#). Reporting time and location for each examination administered on NEOMED's campus is posted on the Outlook Calendar. Below is a summary of expected performance measurements. The Subject Examination score is an equated percent correct score that represents mastery of the content domain assessed by the examination. Cut lines are based on the most recent recommendations of the National Board of Medical Examiners (NBME). Hofstee Compromise recommended passing score is used for minimum passing score. Minimum Pass with Commendation score is set at the 70th percentile nationally within Hofstee

Compromise range of acceptable minimum honors scores. [NBME content examples](#) for each Clerkship can be accessed through this [link](#).

Subject Examination	Failing Range	Passing Range	Pass with Commendation
Family Medicine Clerkship	≤ 60	61-79	≥ 80
Internal Medicine Clerkship	≤ 58	59-79	≥ 80
Obstetrics/Gynecology Clerkship	≤ 63	64-81	≥ 82
Pediatrics Clerkship	≤ 61	62-82	≥ 83
Psychiatry Clerkship	≤ 70	71-85	≥ 86
Surgery Clerkship	≤ 59	60-78	≥ 79

Final Clerkship Grade Categories

Evaluation of student performance is expressed as one of the following permanent grades: Honors, High Pass, Pass or Fail. Extended Time or Incomplete are temporary grades assigned by the Clerkship Site Director, which indicate work in the course is incomplete. This grade may be the result of excused absences or academic deficiencies identified in a Clerkship or NBME assessment. If the Incomplete is not completed within the stated time frame (not to exceed one calendar year), the “Incomplete” will become a Fail grade. Students can view assessment data on OASIS. ***Please refer to [COM Grade Categories Policy](#) for further detail.**

Final Clerkship Grade Category	Clinical Performance Grade	National Board of Medical Examiners (NBME) Grade
Honors (H) <ul style="list-style-type: none"> only applicable to Clerkships that require a NBME subject exam 	<i>Pass with Commendations</i> <ul style="list-style-type: none"> provided there are no individual ratings of “below expectations” for any of the individual objectives 	<i>Pass with Commendations</i>
High Pass (HP)	<i>Pass with Commendations</i> <ul style="list-style-type: none"> provided there are no individual ratings of “below expectations” for any of the individual objectives 	<i>Pass the NBME subject exam on first attempt</i>
	<i>Pass</i> <ul style="list-style-type: none"> provided there are no individual ratings of “below expectations” for any of the individual objectives 	<i>Pass with Commendations</i>
Pass (P)	<i>Pass</i>	<i>Pass</i>
	<i>Pass</i>	<i>NBME subject exam not required</i>
Fail (F)	<i>Fail</i>	<i>Pass</i>
	<i>Pass</i>	<i>Fail</i>
	<i>Fail</i>	<i>NBME subject exam not required</i>
Incomplete (I)	<ul style="list-style-type: none"> Temporary grade indicating that work in the course is incomplete. 	

or Extended Time (EX)	This grade may be the result of excused absences or academic deficiencies identified in a Clerkship or NBME assessment.
----------------------------------	---

Grade Dispute

Grade Dispute guidelines are set forth in NEOMED’s [College of Medicine Grade Dispute Policy](#). A Grade Dispute is a formal request to change a Final Grade based on: 1) arithmetic, procedural or clerical error, 2) arbitrariness and capriciousness or 3) prejudice. Only Final Grades may be disputed. If a student disagrees with his/her Final Grade for a Clerkship, the student must first discuss the matter with the Clerkship Site Director assigning the grade **within five (5) working days** of posting of the Final Grade Report Form, as well as notify, in writing M3-M4GradeDispute@neomed.edu regarding the intent. Please refer to the policy for additional details on grade disputes.

Course Remediation

Guidelines specified in the *Compass* will be followed. Remediation is a privilege. Students are not guaranteed the opportunity to remediate. Student professionalism, for example, or lack thereof, may be factored into the decision to offer remediation.

“Below Expectations” rating in four or more individual items on the Student Performance Evaluation Form (SPEF):

- Student must repeat clerkship in its entirety including the NBME Subject Examination. The highest grade for a repeated Clerkship is “Pass”.
- Repetition of Clerkship will be scheduled by the College of Medicine /and Enrollment Services.
- Exception: Aggregate professionalism or performance concerns may result in referral to the Committee on Academic and Professional Progress (CAPP) rather than remediation.

Committee on Academic and Professional Progress (CAPP) Standards for Unsatisfactory Performance and Academic Action:

CAPP standards in the *Compass* are not limited to but include the following for referral to CAPP:

- Aggregate performance and/or professionalism concerns.
- Failure of multiple NBME Subject Examinations.
- Failure of any remediation.
- Failure of a repeated Clerkship.

COURSE POLICIES & PROCEDURE

Students are responsible for:

- Knowing where they are supposed to be at all times.
- Asking for guidance if unsure (not knowing expectations is not acceptable).
- Performing according to the articulated guidelines – study them, know them and perform.
- Owning their education.
- Defining their learning agenda each day.
- Following all Hospital Institutional Policies as instructed

Students should refer to the NEOMED Policy Portal for a full list of Clerkship Course Policies (<https://www.neomed.edu/policies/>) and the NEOMED [Compass](#), 2023-2024, for further details.

Attendance and Time Off Clerkship

[Attendance guidelines](#) for all sessions are set forth in NEOMED’s policy Attendance at Instructional Sessions

- Absences must be discussed with your site director and an Absence Notification Form must be submitted to NEOMED after a make-up plan is discussed.
- Request to present at a [professional conference](#) or fulfill a professional obligation should be completed online at least 6 weeks in advance.
- [Religious Holiday Observation](#) requests should be submitted for the first half of the year by July 1st and by November 1st for those holidays falling after January.

Blood Borne Pathogen Policy

If the Exposure Incident occurs at a clinical site, first notify the clinical director or preceptor and then report to the Employee Health clinic, designated medical department or facility for that institution, for treatment and/or evaluation according to the site guidelines.

Curriculum Contact Hours

In compliance with guidelines established by the Liaison Committee on Medical Education (LCME) and in accordance with the NEOMED Curriculum Contact Hours Policy, students will not be required to work longer hours than residents.

Clinical Supervision and Safety

Students should be appropriately supervised in learning situations that involve patient care and the activities supervised should be within the scope of practice of the supervising health care professional.

- Follow OSHA guidelines and appropriate patient safety procedures (handwashing, mask, gloves) as directed by the clinical site.
- If you are in doubt, err on the side of caution by taking a chaperone (fellow student, attending, nurse or security).

Mistreatment

Any issues or concerns regarding the Clerkship, house staff, personnel, patient availability, etc., should be addressed to the Clerkship Site Director. Any issues or concerns regarding the course, course faculty and staff, etc., should be addressed to the CED of Associate Dean of Experiential Education.

- Issues or concerns should be addressed as quickly as possible to foster early resolution.
- Concerns regarding misconduct also may be reported confidentially or anonymously using the [Inappropriate Behavior Reporting Form](#).
- Students who feel they have been harassed or discriminated against should discuss the matter with their Associate Dean of Experiential Education, the Director of Student Wellness and Counseling, or the Chief Student Affairs Officer.

Professionalism

NEOMED students sign and are held to the Honor Code [Expectations of Student Conduct and Professional Behavior](#) and must abide by all student policies contained within *The Compass*. Failure to do so may result in referral and review by either CAPP or the Student Conduct Council.

- Hospitals and their academic departments reserve the right to determine appropriate attire for their sites and may impose additional requirements.

Subject Examination and Illness Protocol

Updated 2.10.22

1. If significantly ill the day of an M3 NBME Subject Examination and unable to take your examination, please reach out to the people below to notify them that you are unable to come. Notification of illness must be completed by 8:00 am the day of the examination. You do not need to wait for a reply although we will be reaching out to contact you.
 - a. The Associate Dean of Educational Experience who is acting in the position of M3 course

- director, Dr. Nofziger, snofziger@neomed.edu
 - b. The M3 Coordinator Team through the M3 Clerkships email: m3clerkships@neomed.edu
 - c. The assessments team assessments@neomed.edu
2. If ill during the week of an examination, please reach out to the following people to notify them that you are ill and discuss a plan going forward. We will work with assessments team that week if necessary.
- a. The Associate Dean of Educational Experience who is acting in the position of M3 course director, Dr. Nofziger, snofziger@neomed.edu
 - b. The M3 Coordinator Team through the M3 Clerkships email: m3clerkships@neomed.edu

We do not offer subject examinations during weekends or during your subsequent Clerkship. Students that do not take their examination at the originally scheduled time will need to reschedule the examination during designated breaks in your schedule. These time periods include winter break, the elective period, and after your final Clerkship is complete. All retake/remediation examinations are on the Rootstown Campus unless they fall during winter break when the campus is closed.

Safety/Clinical Supervision

1. The availability of emergency care. All NEOMED students are required to have health insurance coverage. Students who are approved for electives at an international site are also required to purchase international health insurance before the elective experience will be approved. When students participate in electives outside of a NEOMED-affiliated site, NEOMED may be asked by the site to enter into an affiliation agreement with the site to address the obligations of the student, the site, and NEOMED. NEOMED reviews all affiliation agreements to ensure that they contain a provision that requires the site to agree to provide emergency care to any NEOMED student participating in an elective at the site.
2. The possibility of natural disasters, political instability, and exposure to disease. Information about natural disasters, political instability and exposure to disease is considered when approving any domestic or international elective experience. For international electives, NEOMED relies heavily on information provided by International SOS and the U.S. State Department (travel.state.gov) to guide the acceptability of and ensure the safety of students who seek electives at an international location. Students who seek to travel to a country with a U.S. Department of State-issued travel warning require approval from the International Experience Committee. Students who seek to travel to a country not under a travel warning require approval from the Office of Global Engagement (OGE). The OGE is integrally involved in clearing students to travel to a location and providing guidance about safe travel to and from the location. The decision to permit a student to travel to an area that has a U.S. Department of State-issued travel warning is student-specific and considers the student's international travel experience, particular travel history to that country/locale, and personal resources in that country/locale. The Director receives routine travel notices, and he monitors the notices for sites at which NEOMED students are rotating. The OGE also provides all NEOMED students who are traveling with a copy of the report as well as a copy of the NEOMED access card for International SOS so that the student can access up-to-date reports while on travel status. Finally, students must enroll with U.S. STEP (Smart Traveler Enrollment Program) and provide proof of enrollment to the OGE. Enrollment in STEP provides an alert to the embassy or consulate in the area in which the student will be traveling, providing information such as the name of the student, the dates of travel and where the student will be staying so that the student can be located easily in case there would be a need for evacuation.

3. Students in the clinical setting must be supervised by a health care professional, including physicians and non-physicians, who is acting within his/her scope of practice. Students who are entrusted to be in a clinical situation without direct supervision must be assured ready access to an appropriate in-house supervisor, i.e., an attending physician or resident. Off-site or telephone supervision is not acceptable.

Students may report concerns regarding inappropriate supervision and/or inappropriate delegation of tasks in several ways including, but not limited to, the course director, the site director, College of Medicine deans, and using the end-of-course evaluation form.

Student Accessibility Services

If you have a documented disability and wish to register with the University Student Accessibility Services Committee, you may do so by completing the Disability Registration and Accommodation Request form (linked above).

APPENDICES

Appendix A: Aquifer Wise-MD Modules

Surgery Clerkship Recommended Aquifer Modules		
Wise-MD Modules		
• Abdominal Aortic Aneurysms	• Adrenal Mass	• Anorectal Disease
• Appendicitis	• Bariatric	• Bowel Obstruction
• Breast Cancer	• Burn Management	• Carotid Stenosis
• Cholecystitis	• Colon Cancer	• Diverticulitis
• Hypercalcemia	• Inguinal Hernia	• Lung Cancer
• Pancreatitis	• Pediatric Hernia	• Pediatric Pyloric Stenosis
• Skin Cancer	• Thyroid Nodule	• Trauma Resuscitation
• Venous Thromboembolism		
Wise-MD Skills		
• Advanced Communication Skills: Empathy	• Best Practices	• Epidural Placement Technique
• Ultrasound: Abdominal Aortic Aneurysm	• Ultrasound: ABI	• Ultrasound Basic Principles
• Ultrasound: Breast	• Ultrasound: Carotid Artery	• Ultrasound: Cholelithiasis / Cholecystitis
• Ultrasound: E-Fast Exam	• Ultrasound: For Vascular Access	• Ultrasound: Thyroid
• Ultrasound: Venous		
Wise MD On Call		
• Acute Pain Management	• Certifying A Death	• Chest Pain
• Documentation for Patient Safety	• Dyspnea	• Hypertension
• Hypotension	• Loss of Consciousness	• Lower Extremity Pain
• Oliguria		

Appendix B: CSEP

Surgery CSEP Supplemental Activity Listing	
Diagnosis	
Abdominal Pain	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> • Chapter 14: Small Intestine and Appendix • Chapter 15: Colon, Rectum and Anus <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> • Surgery Wise-MD Module: Diverticulitis • Surgery Wise-MD Module: Appendicitis <p>CANVAS</p> <ul style="list-style-type: none"> • Video: Acute Abdominal Pain
Appendicitis	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> • Chapter 14: Small Intestine and Appendix <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> • Surgery Wise-MD Module: Appendicitis
Cholecystitis	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> • Chapter 16: Biliary Tract <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> • Surgery Wise-MD Module: Cholecystitis
Diverticulitis	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> • Chapter 14: Small Intestine and Appendix • Chapter 15: Colon, Rectum, and Anus <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> • Surgery Wise-MD Module: Diverticulitis
Hernia	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> • Chapter 11: Abdominal Wall, Including Hernia <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> • Surgery Wise-MD Module: Inguinal Hernia • Surgery Wise-MD Module: Pediatric Hernia <p><u>Video Resources</u> CANVAS</p> <ul style="list-style-type: none"> • Video: Hernias
Peripheral Arterial Disease	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> • Chapter 22: Diseases of the Vascular System

	<p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Family Medicine 07: 53-year-old male with leg swelling <p><u>Video Resources</u> CANVAS</p> <ul style="list-style-type: none"> Video: Peripheral Arterial Occlusive Disease
Post-Operative Fever	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 8: Surgical Infections <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Diagnostic Excellence 02: 35-year-old male with abdominal pain
Solid Organ Malignancy (e.g. breast, colon)	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 15: Colon, Rectum, and Anus Chapter 19: Breast <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Module: Breast Cancer Surgery Wise-MD Module: Colon Cancer Surgery Wise-MD Module: Lung Cancer
Trauma	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 9: Trauma <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Module: Trauma Resuscitation Surgery Wise-MD Module: Burn Management
Physical Examination	
Abdominal Exam	<p><u>Text Resources</u> Bates' Guide</p> <ul style="list-style-type: none"> Chapter 19: Abdomen <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Module: Appendicitis Surgery Wise-MD Module: Diverticulitis <p><u>Video Resources</u> Bates' Visual Guide</p> <ul style="list-style-type: none"> Volume 13: Abdomen
Procedures/Technical Skills	
Abdominal Incision	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 11: Abdominal Wall, Including Hernia
Cholecystectomy (open or laparoscopic)	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p>

	<ul style="list-style-type: none"> Chapter 16: Biliary Tract <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Module: Cholecystitis
Endoscopy	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 12: Esophagus Chapter 18: Liver <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Module: Colon Cancer Surgery Wise-MD Module: Diverticulitis
Exploratory Laparotomy	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 13: Stomach and Duodenum
Foley Catheter Placement	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 1: Perioperative Evaluation and Management of Surgical Patients <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Skills Module: Foley Catheter Placement
Hernia Repair	<p><u>Text Resources</u> Essentials of General Surgery and Surgical Specialties</p> <ul style="list-style-type: none"> Chapter 11: Abdominal Wall, Including Hernia <p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Module: Inguinal Hernia <p>Touch Surgery App</p> <ul style="list-style-type: none"> Laparoscopic Inguinal Hernia Repair Course Laparoscopic Ventral Hernia Repair Course Robotic Assisted Inguinal Hernia Repair with ProGrip Mesh
Intubation	
Laceration Repair/Suturing	
Sterile technique including prepping and draping sterile field.	<p><u>Online Resources</u></p> <ul style="list-style-type: none"> Surgery Clerkship 101: The OR Essentials Using Education Videos to Teach Sterile Surgical Technique
Sutures/Staples Removal	
Additional Clinical Activities	
Complete two observed H&Ps.	
Document Admission Orders.	
Observe Informed Consent	<p><u>Online Resources</u> Aquifer Cases</p> <ul style="list-style-type: none"> Surgery Wise-MD Skills Module: Best Practices Surgery Wise-MD Module: Bowel Obstruction Surgery Wise-MD Module: Carotid Stenosis

	<ul style="list-style-type: none"> • Surgery Wise-MD Module: Cholecystitis • Surgery Wise-MD Module: Inguinal Hernia
Observed Procedural Time Out	
Additional Learning Activities	
<ul style="list-style-type: none"> • Complete PBLI presentation. 	
<ul style="list-style-type: none"> • Complete required WISE-MD and ACS/ASE Medical Student Core Curriculum Videos. 	
<ul style="list-style-type: none"> • Complete mid-course feedback session with site director. 	
<ul style="list-style-type: none"> • Complete Surgery NBME subject practice exam prior to 10-week mid-point and share results with site director. 	
<ul style="list-style-type: none"> • Complete weekly assigned uWorld questions. 	
<ul style="list-style-type: none"> • Develop and submit personal rotation goals by end of week one. 	
<ul style="list-style-type: none"> • Primary contact with at least 25 patients. 	
<ul style="list-style-type: none"> • Review progress on personal goals midway and submit progress by end of clerkship. 	