Syllabus General Surgery Clerkship

<table>
<thead>
<tr>
<th>Course No.:</th>
<th>OM 7030</th>
<th>Course Title:</th>
<th>General Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hours:</td>
<td>4 weeks, 4 credit hours for each rotation</td>
<td>Chair:</td>
<td>Vivian Davis, D.O.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clerkship director:</td>
<td>Marian Safaoui, M.D.</td>
</tr>
<tr>
<td>Term - Dates:</td>
<td>Variable in OMS III academic year</td>
<td>Level:</td>
<td>OMS III</td>
</tr>
</tbody>
</table>

Department of Clinical Education Contact Information

FOR POMONA CAMPUS
Natalie A. Nevins, DO, MSHPE, Asst. Dean of Clinical Education, Pomona
nnevins@westernu.edu, (909) 469-8414

Marisa Orser, M.Ed.
Associate Director of Clinical Education
(909) 469-5253

Students contact Rotations Department staff by Submitting an OTRS ticket
Preceptors can email: comsite@westernu.edu

FOR OREGON CAMPUS
Katherine Fisher, DO, Director of Clinical Education, Oregon
kfisher@westernu.edu (541) 259-0243

Kim Ketcham
Assistant Director of Clinical Education
(541) 259-0666

Students contact Rotations Department staff by Submitting an OTRS ticket
Preceptors can email: nwsite@westernu.edu

Educational Goal
Purpose:
The purpose of this rotation is to provide 3rd year medical students exposure to common surgical diseases, their diagnosis, treatment, and management. This will enable you, the student, to utilize your basic knowledge of surgical diseases and help develop problem-solving skills that will strengthen your ability in clinical decision-making as it relates to surgical patients.

Goals:
1. To provide exposure to the field of surgery in both an inpatient and outpatient setting.
2. Understand the anatomy, physiology, and pathology of surgical diseases.
3. Learn the pre-operative and post-operative management of the surgical patient.
4. Learn the technical aspects of general surgery.

### Core Surgery Clerkship Learning Objectives

At the end of this rotation, the student should:

1. Demonstrate understanding of the diagnosis and management of common general surgical diseases. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
2. Demonstrate understanding of when operative versus nonoperative therapy is indicated. *(COMP/AOA core competencies 1, 2, 3, 6; Institutional outcomes 1, 2, 7, 8)*
3. Demonstrate understanding of the risks and benefits of various surgical procedures. *(COMP/AOA core competencies 2, 3, 6; Institutional outcomes 1, 2, 7)*
4. Obtain an accurate history and perform an accurate physical examination of the surgical patient. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
5. Demonstrate the preoperative and postoperative evaluation of the surgical patient. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
6. Demonstrate the evaluation of the acute surgical patient. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
7. Demonstrate the ability to prepare a focused surgical SOAP note. *(COMP/AOA core competencies 2, 3, 4, 5; Institutional outcomes 1, 2)*
8. Demonstrate the ability to prepare and deliver an oral focused surgical presentation. *(COMP/AOA core competencies 2, 3, 4, 5; Institutional outcomes 1, 2, 3, 4)*
9. Demonstrate the development of differential diagnoses for surgical presentations. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
10. Demonstrate understanding of fluid resuscitation of the surgical patient as well as how to write accurate fluid orders. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
11. Write preoperative and postoperative orders on a surgical patient. *(COMP/AOA core competencies 2, 3, 4, 5; Institutional outcomes 1, 2)*
12. Demonstrate understanding of the clinical, laboratory, and radiological resources used for diagnosing general surgical diseases. *(COMP/AOA core competencies 2, 3, 6, 7; Institutional outcomes 1, 2, 7)*
13. Demonstrate the understanding of electrolyte management of the surgical patient as well as how to recognize and correct electrolyte abnormalities. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
14. Demonstrate basic principles of surgical technique such as gowing and gloving, sutting, dressing changes, central line placement, chest tube placement, nasogastric tube placement, and Foley catheter placement. *(COMP/AOA core competencies 2, 3; Institutional outcomes 1, 2)*
15. Demonstrate effective communication with the surgical team, attendings, residents, physician assistants, nurse practitioners, nurses, ancillary personnel, etc. *(COMP/AOA core competencies 1, 2, 3, 4, 5, 6, 7; Institutional outcomes 1, 2, 3, 4, 8)*

### Rotation Expectations

**Expectations:**

During this rotation, the student is expected to do the following:
1. Function as an essential member of the surgical team.
2. Report to the hospital daily. If you are going to be late or absent, you must notify the resident or attending that you are assigned to and the COMP Rotations Office.
3. Report to the resident or attending physician you are assigned to daily. They will assign patients for you to take care of during your rotation.
4. Round on your patients daily. Write progress notes and orders as allowed by hospital policy, the resident, or attending physician.
5. Notify the resident or attending physician of any change in the condition of your patient. Also notify them of any abnormal laboratory or radiological findings.
6. Scrub in on all cases assigned to you by the resident or attending physician.
7. Meet the patient in the preoperative area and escort the patient to the operating room as directed by your supervising physician. Whenever possible, you should be in the room with the patient during the induction of anesthesia. You should also follow the patient to the recovery room after surgery.
8. Read about your assigned cases prior to going to the operating room. This should be done in detail the night before and can be refreshed on the day of surgery. You WILL be asked questions on the anatomy, physiology, and pathology of the cases you are assigned.
9. Attend all educational conferences and grand rounds as required by the resident or attending physician.
10. Be present for all on-call days. If you are going to be late or absent, you must notify the resident or attending that you are assigned to and the COMP Rotations Office.
11. Check with the night intern or resident staff daily to see if your patients had any complications during the night.
12. Read about the anatomy, physiology, and pathology of the surgical diseases encountered in the required textbooks.
13. Complete the assigned WISE-MD modules.
14. Complete the assigned reading.
15. Perform a history and physical examination on surgical patient.
16. Apply osteopathic principles and practices to every surgical patient.

### Required Educational Assignments

#### Documentation

1. **Patient Encounters**
   Students are required to document each patient encounter in a case log that will be provided during didactic week. At the end of the rotation, the completed case log will be submitted to the COMP Department of Surgery. Failure to submit the log will count as failure to complete the clerkship.

2. **Procedures**
   Students are also required to document each procedure performed in a procedure log that will be provided during didactic week. At the end of the rotation, the completed procedure log will be submitted to the COMP Department of Surgery.

3. **Operations**
   Students are also required to document each operation that they participated in or observed in a surgery log that will be provided during didactic week. At the end of the rotation, the completed surgery log will be submitted to the COMP Department of Surgery.
You will be participating in the WISE-MD on-line program that allows students to have a standardized surgical curriculum across the different rotation sites. These lectures are specifically designed for the 3rd year medical student and are developed and given by nationally recognized surgical faculty. You will be required to complete the 10 on-line WISE-MD surgery modules to successfully pass the rotation.

**WISE-MD on-line modules**
- Appendicitis
- Bowel Obstruction
- Breast Cancer
- Cholecystitis
- Colon Cancer
- Diverticulitis
- Inguinal Hernia
- Pediatric Hernia
- Pancreatitis
- Trauma Resuscitation

**Case Conference/Case Presentation/Case Study**

No specific case study is required for this rotation. You are required to present ONE surgical history and physical examination for a grade by your preceptor.

**Recommended Procedure List (to see or do)**

PATIENT ENCOUNTERS: The following is a list of “MUST SEE” cases. In the event that a student is unable to see one of the cases below, it will be covered by a WISE-MD module.

1. Abdominal pain
2. Acute abdomen
3. Acute cholecystitis
4. Appendicitis
5. Bowel obstruction
6. Diverticulitis
7. Hernia
8. Malignancies
9. Postoperative pain
10. Trauma

**Core Topics of Study**

See required reading in Required Educational Assignments.
Students are assigned to specific credentialed clinical faculty/preceptors at their core clinical site.

Vivian Davis, D.O. Chair, Surgery
Appointments available by email at vdavis@westernu.edu

Marian Safaoui, M.D., Assistant Professor of Surgery and Clerkship Director
msafaoui@westernu.edu

Instructional Methods

Scheduled rotation time will be used for supervised patient care, case presentations and independent studying.

Texts and Media

It is strongly recommended that students spend approximately 10 hours per week reading independently. Students should not rely solely on the review books to be adequately prepared for the rotation as they do not provide the knowledge base needed to successfully pass the rotation and the examinations.

Required Texts:

1. **Essentials of General Surgery** by Peter Lawrence.
   The required chapters are:
   - Chapter 1 Perioperative management
   - Chapter 2 Fluids and electrolytes
   - Chapter 3 Nutrition
   - Chapter 4 Surgical bleeding
   - Chapter 7 Wound and wound healing
   - Chapter 8 Surgical infection
   - Chapter 9 Trauma
   - Chapter 11 Hernia
   - Chapter 14 Small intestine and appendix
   - Chapter 15 Colon, rectum, and anus
   - Chapter 16 Biliary tract
   - Chapter 19 Breast

   OR

2. **Current Surgical Diagnosis and Treatment** by Gerard M. Doherty (available free on-line through the library as an electronic resource via AccessMedicine)
   The required chapters are:
   - Chapter 1 Approach to the surgical patient
   - Chapter 2 Training, communication, and professionalism
   - Chapter 3 Preoperative care
   - Chapter 4 Postoperative care
   - Chapter 5 Postoperative complications
Chapter 6 Wound healing
Chapter 7 Power sources in surgery
Chapter 8 Inflammation, infection, and antimicrobial therapy
Chapter 9 Fluid and electrolytes
Chapter 10 Surgical metabolism and nutrition
Chapter 11 Anesthesia
Chapter 13 Injured patient
Chapter 17 Breast
Chapter 21 Acute abdomen
Chapter 22 Peritoneal cavity
Chapter 25 Biliary tract
Chapter 28 Appendix
Chapter 29 Small intestine
Chapter 30 Large intestine
Chapter 31 Anorectum
Chapter 32 Hernia

3. WISE-MD on-line modules
   Abdominal Aortic Aneurysms
   Adrenal adenoma
   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

Supplemental review books
1. Surgical Recall by Lorne H. Blackbourne (Review book)
2. NMS Surgery Casebook by Bruce E. Jarrell (Review book)
3. NMS Surgery by Bruce E. Jarrell (Review book)
Surgical textbooks and handbooks (for reference only)

2. Schwartz’s Principles of Surgery (Surgical textbook available on-line)
3. Sabiston’s Textbook of Surgery (Surgical textbook available on-line)
4. The Washington Manual of Surgery (Surgical handbook)
5. The Mont Reid Surgical Handbook (Surgical handbook)

NOTE: Individual preceptors may include other resources. You will be notified of these resources by each preceptor.

**Rotation Format, Evaluation, Grading, and Student Feedback**

Additional information is located in the Clinical Education Manual at:
http://www.westernu.edu/bin/ime/cem-2014.pdf

**Rotation Schedule**
Each site will provide students with a schedule on their first day of the rotation. These schedules are rarely available prior to the start of the rotation.
It is solely your responsibility to read and understand all information provided to you by the site. Some sites have additional requirements above and beyond those set forth by the College of Osteopathic Medicine.

**Evaluations:**
The evaluation of the student is based upon, but not limited to the following:

1. Knowledge of the surgical disease, pathology, and management for assigned patients.
2. Knowledge of the diagnosis and treatment of common surgical diseases.
3. Knowledge of surgical skills related to assigned patients.
4. Presentation of assigned patients on daily rounds.
5. Completion of paperwork (history and physicals, progress notes, orders, etc) on assigned patients.
6. Performance of an independent presentation as assigned by the resident or attending physician.
7. Professionalism and rapport with patients, residents, attendings, and ancillary staff.
8. Attendance at lectures, conferences, and meetings.
9. Submission of completed case log and procedure log to the COMP Department of Surgery.

Failure to submit the logs will count as failure to complete the clerkship.

**General Policies**

**Policy on Disability Accommodations:** To obtain academic accommodations for this rotation, students with disabilities should contact the Center for Disability Issues and the Health Professions and the system coordinator within ten days of the beginning of the system. Disability Services can be reached at 909.469.5380.

**Remediation Policy:** Refer to the Clinical Education Manual

**Attendance Policy:** Refer to the Clinical Education Manual
Academic Dishonesty: Complete confidence in the honor and integrity of the health professions student and health care professional is essential. Such confidence depends entirely on the exemplary behavior of the individual health care provider in his or her relations with patients, faculty and colleagues. Strict honesty as a personal way of life should be nurtured during the period of education for professional service. The student shall conduct all aspects of his or her life with honor and integrity. This includes accountability to oneself and to relationships with fellow students, future colleagues, faculty, and patients who come under the student’s care or contribute to his or her training and growth, and members of the general public. This applies to personal conduct that reflects on the student’s honesty and integrity in both academic and non-academic settings, whether or not involving a University sponsored activity. Upon accepting admission to the University, each student subscribes to and pledges complete observance to the Standards of Academic and Professional Conduct as outlined in the University Catalog for each academic program. A violation of these standards is an abuse of the trust placed in every student and could lead to suspension or dismissal.
WU INSTITUTIONAL OUTCOMES | Health Professional Education
---|---
1. Critical Thinking | The graduate should be able to identify and solve problems that require the integration of multiple contexts when performing patient care.
2. Breadth and Depth of Knowledge in the Discipline/Clinical Competence | The graduate should be able to perform appropriate diagnostic and therapeutic skills, to apply relevant information to patient care and practice, and to educate patients regarding prevention of common health problems.
3. Interpersonal Communication Skills | The graduate should be able to effectively use interpersonal skills that enable them to establish and maintain therapeutic relationships with patients and other members of the health care team.
4. Collaboration Skills | The graduate should be able to collaborate with clients and with other health professionals to develop a plan of care to achieve positive health outcomes for their patients.
5. Ethical and Moral Decision Making Skills | The graduate should be able to perform the highest quality of care, governed by ethical principles, integrity, honesty and compassion.
6. Life Long Learning | The graduate should be able to engage in life-long, self-directed learning to validate continued competence in practice.
7. Evidence-Based Practice | The graduate should be able to utilize research and evidence-based practice and apply relevant findings to the care of patients.
8. Humanistic Practice | The graduate should be able to carry out compassionate and humanistic approaches to health care delivery when interacting with patients, clients, and their families. They should unfailingly advocate for patient needs.

COMP/AOA CORE COMPETENCIES

<table>
<thead>
<tr>
<th>Competency: Osteopathic Medical Students are part of an educational continuum that leads to residency and the curriculum provides the foundation for the following outcomes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Osteopathic Philosophy and Osteopathic Manipulative Medicine</td>
</tr>
<tr>
<td>2. Medical Knowledge</td>
</tr>
<tr>
<td>3. Patient Care</td>
</tr>
<tr>
<td>4. Interpersonal and Communication Skills</td>
</tr>
<tr>
<td>5. Professionalism</td>
</tr>
<tr>
<td>6. Practice-Based Learning and Improvement</td>
</tr>
<tr>
<td>7. Systems-based Practice</td>
</tr>
<tr>
<td>COMPARISON OF OUTCOMES STANDARDS: WU AND COMP</td>
</tr>
<tr>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Critical Thinking</td>
</tr>
<tr>
<td>Breadth and Depth of Knowledge in the Discipline/Clinical Competence</td>
</tr>
<tr>
<td>Interpersonal Communication Skills</td>
</tr>
<tr>
<td>Collaboration Skills</td>
</tr>
<tr>
<td>Ethical and Moral Decision Making Skills</td>
</tr>
<tr>
<td>Life Long Learning</td>
</tr>
<tr>
<td>Evidence-Based Practice</td>
</tr>
<tr>
<td>Humanistic Practice</td>
</tr>
</tbody>
</table>

Copyright Statement:
Copies of documents used in this rotation were made available under Section 107 of the Copyright Act of 1976, the Fair Use Statute. This material has been made available solely for use in this class and the material may not be further distributed to any person outside the class, whether by copying or by transmission in electronic or paper form. If Fair Use does not apply, copyright permission to reproduce these documents has been applied for or granted through the Copyright Clearance Center or the copyright owner.