Syllabus General Surgery Clerkship

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

**FOR POMONA CAMPUS**

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Students contact Rotations Department staff by Submitting an OTRS ticket

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**FOR OREGON CAMPUS**

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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 gowning and gloving, suturing, 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 19 on-line WISE-MD surgery modules to successfully pass the rotation.

**WISE-MD on-line modules**

a. Abdominal Aortic Aneurysms  
b. Adrenal adenoma  
c. Anorectal disease  
d. Appendicitis  
e. Bariatric Surgery and Obesity  
f. Bowel Obstruction  
g. Breast Cancer Surgery  
h. Burn Management  
i. Carotid Stenosis  
j. Cholecystitis  
k. Colon Cancer  
l. Diverticulitis  
m. Hernia  
n. Lung Cancer  
o. Pediatric Surgery: Hernia & Hydrocele  
p. Pediatric Surgery: Pyloric Stenosis  
q. Skin Cancer  
r. Thyroid Nodule  
s. 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

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<tr>
<th>Core Topics of Study</th>
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See required reading in Required Educational Assignments.

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<tr>
<th>Clinical Faculty</th>
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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

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<th>Instructional Methods</th>
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Scheduled rotation time will be used for supervised patient care, case presentations and independent studying.

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<th>Texts and Media</th>
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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:**  
The required chapters are:  
   a. Chapter 1 Perioperative management  
   b. Chapter 2 Fluids and electrolytes  
   c. Chapter 3 Nutrition  
   d. Chapter 4 Surgical bleeding  
   e. Chapter 7 Wound and wound healing  
   f. Chapter 8 Surgical infection  
   g. Chapter 9 Trauma  
   h. Chapter 11 Hernia  
   i. Chapter 14 Small intestine and appendix
j. Chapter 15 Colon, rectum, and anus
k. Chapter 16 Biliary tract
l. Chapter 19 Breast

OR

3. **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:

a. Chapter 1 Approach to the surgical patient
b. Chapter 2 Training, communication, and professionalism
c. Chapter 3 Preoperative care
d. Chapter 4 Postoperative care
e. Chapter 5 Postoperative complications
f. Chapter 6 Wound healing
g. Chapter 7 Power sources in surgery
h. Chapter 8 Inflammation, infection, and antimicrobial therapy
i. Chapter 9 Fluid and electrolytes
j. Chapter 10 Surgical metabolism and nutrition
k. Chapter 11 Anesthesia
l. Chapter 13 Injured patient
m. Chapter 17 Breast
n. Chapter 21 Acute abdomen
o. Chapter 22 Peritoneal cavity
p. Chapter 25 Biliary tract
q. Chapter 28 Appendix
r. Chapter 29 Small intestine
s. Chapter 30 Large intestine
t. Chapter 31 Anorectum
u. Chapter 32 Hernia

4. **WISE-MD on-line modules**
   
a. Abdominal Aortic Aneurysms 
b. Adrenal adenoma 
c. Anorectal disease 
d. Appendicitis 
e. Bariatric Surgery and Obesity 
f. Bowel Obstruction 
g. Breast Cancer Surgery 
h. Burn Management 
i. Carotid Stenosis 
j. Cholecystitis 
k. Colon Cancer 
l. Diverticulitis 
m. Hernia 
n. Lung Cancer 
o. Pediatric Surgery: Hernia & Hydrocele 
p. Pediatric Surgery: Pyloric Stenosis
Skin Cancer

Thyroid Nodule

Trauma Resuscitation

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 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

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<tbody>
<tr>
<td>1.</td>
<td>Critical Thinking</td>
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<tr>
<td>2.</td>
<td>Breadth and Depth of Knowledge in the Discipline/Clinical Competence</td>
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<tr>
<td>3.</td>
<td>Interpersonal Communication Skills</td>
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<td>4.</td>
<td>Collaboration Skills</td>
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<td>5.</td>
<td>Ethical and Moral Decision Making Skills</td>
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<td>6.</td>
<td>Life Long Learning</td>
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<td>7.</td>
<td>Evidence-Based Practice</td>
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<td>8.</td>
<td>Humanistic Practice</td>
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## COMP/AOA CORE COMPETENCIES

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<thead>
<tr>
<th></th>
<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>
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<tbody>
<tr>
<td>1.</td>
<td>Osteopathic Philosophy and Osteopathic Manipulative Medicine</td>
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<tr>
<td>2.</td>
<td>Medical Knowledge</td>
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<td>3.</td>
<td>Patient Care</td>
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<td>4.</td>
<td>Interpersonal and Communication Skills</td>
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<td>5.</td>
<td>Professionalism</td>
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<td>6.</td>
<td>Practice-Based Learning and Improvement</td>
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<td>7.</td>
<td>Systems-based Practice</td>
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COMPARISON OF OUTCOMES STANDARDS: WU AND COMP

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<tr>
<th></th>
<th>WU</th>
<th>COMP</th>
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<tbody>
<tr>
<td>Critical Thinking</td>
<td>1</td>
<td>1, 2, 3, 6</td>
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<tr>
<td>Breadth and Depth of Knowledge in the</td>
<td>2</td>
<td>1, 2, 3, 4, 5, 6, 7</td>
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<tr>
<td>Discipline/Clinical Competence</td>
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<tr>
<td>Interpersonal Communication Skills</td>
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<td>4</td>
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<td>Collaboration Skills</td>
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<td>Ethical and Moral Decision Making</td>
<td>5</td>
<td>1, 3, 5, 6</td>
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<td>3, 4, 5</td>
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