



Ohio University College of Osteopathic Medicine
Centers for Osteopathic Research and Education
Class of 2010 CORE Clinical Rotation: *General Surgery*

Last update: 09/08/2008

Course Title:	OCOM 862 General Surgery
Instructor of Record:	Peter B. Dane, D.O.
Credit Hour:	12 Credit Hours
Rotation Length:	4 weeks
Prerequisites:	Successful completion of Family Medicine Clerkship, Part 1

Syllabus Components

1. Rotation Description, Purpose and Philosophy
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1. Rotation Description, Purpose, and Philosophy

The purpose of this rotation is to provide the student with an overview of the clinical specialty of General Surgery. This rotation is not intended to transform the student into a surgeon, but rather it is to provide the clinical clerk a survey of the specialty. The student will encounter a variety of experiences in those areas traditionally identified as Surgery.

2. Rotation Objectives

A set of learning objectives is provided below. The objectives are intended to guide the student's learning activities and to serve as a baseline for assessment of the student's knowledge, skills, and professional behavior. While these objectives are the focus of the rotation, s/he is to care for all assigned patients.

Rotation Objectives: Knowledge Domain

For each disease or condition listed below, the student should be able to describe/assess the following:

1. Presenting signs and symptoms
2. Physical findings
3. Basic interpretations of appropriate diagnostic studies
4. Major differential diagnoses
5. Management alternatives, including: treatment plans, patient education, and modifiable risk factors

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5. Possible complications
6. Prognosis
7. Follow-up care
8. Related somatic dysfunction and appropriate osteopathic treatment(s)
9. Primary, secondary, and tertiary prevention strategies
10. Underlying biomedical/psychosocial principles

Diseases/Conditions

- Gall bladder disease
- Hernias
- Appendicitis
- Breast disease – Cyst/cancer
- Colon cancer
- Bowel obstruction
- GI bleeding
- Anorectal disease (Hemorrhoids, fissures/abscesses)
- Fluid and Electrolytes
- TPN (total peripheral nutrition)
- Inflammatory Bowel Disease/Abdominal pain/Irritable Bowel
- Post-op complications – wound infections
- Systemic infections
- Wound management

The post-rotation exam may include questions on any aspect of the topics listed.

Rotation Objectives: Clinical Skills Domain

During the General Surgery Rotation, students are expected to develop their competencies in many basic clinical skills. While not every skill can be performed during this brief rotation, the student should avail him/herself of as many of the following procedures as possible, and to seek out opportunities to perform these skills in other rotations as well. Possible procedures are listed in Appendix A of this syllabus.

3. Orientation to the Rotation

The student should try to meet with the preceptor either prior to or on the first day of the rotation. Clarifying the following details with the preceptor will help to ensure a rewarding and successful rotation:

- a. Student responsibilities on the service.
- b. Preceptor expectations of the student on the service.
- c. Goals, objectives, and the structure of the rotation.
- d. Required rotation assignments and responsibilities in the preceptor's practice (e.g. clinics, lectures, conferences, other didactics, journal clubs, rounds, office hours, morning report).
- e. Discuss the Evaluation of Student Clinical Performance form. The student should ask for feedback several times during the rotation, especially at mid-rotation. In addition, he/she should be prepared to share past clinical experiences and personal objectives for this rotation with the preceptor.

4. Required Learning Activities, Assignments, and Responsibilities for ALL OU-COM STUDENTS in order to earn credit for this rotation

- a. Successfully complete the pre- and post-rotation exams per instructions in this syllabus.
- b. Attend and participate in all CORE education day presentation or other didactic activities as assigned by the CORE Assistant Dean.
- c. Fulfill all required responsibilities identified by the preceptor during orientation.
- d. Ensure that the following are submitted within two weeks of the end of the rotation:
 - preceptors' written evaluation to the CORE office
 - online Student Evaluation through New Innovations
 - procedures log through New Innovations
 - a copy signed by the preceptor of the log summary (from New Innovations) to the CORE office

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5. Student Performance Evaluation

A student's grade for the rotation will be based on the following criteria. The student must pass both parts in order to pass the rotation.

Rotation Exams

Pre-rotation Exam

During the first week of this rotation the student must complete an on-line (BlackBoard) 20-item pre-rotation test in 20 minutes. The purpose of this pre-test is to introduce the types of questions that will make up the post-rotation exam and help focus reading during the rotation.

Scheduling The exam is self-scheduled during the first week of the rotation.

Computer requirement The exam can be taken on any computer that meets the requirements for using Blackboard. The exam cannot be taken over a dial-up connection.

Required Score No specific grade is expected or required on this pre-test.

Limitations Only one attempt may be made to take this. Once the exam is started, the student must complete it in one sitting. It may not be saved to resume at a later time.

Scoring Upon submitting the exam, the student will receive a score along with the correct answers and information on the chapter of the required text on which the question is based.

Honor Code The OU-COM Honor Code guides student behavior related to this exam. At the end of the exam, the student is required to enter New Innovations to complete and submit the Honor Code form. The student will not receive a passing grade for the clerkship unless this form is documented on New Innovations.

Time Penalty Blackboard will alert the student when one minute remains to complete the exam. Blackboard does **not** automatically stop the test when the time limit is reached. The student must manually submit the exam within 1 minute of receiving the 1-minute warning.

Post-rotation Exam

During the last few days of the rotation (or no later than two weeks after the rotation ends), the student must successfully complete (score at least 60 percent) on an online, 50-item, 50-minute post-rotation exam that will cover the diagnosis, treatment, and prevention of diseases and conditions listed in this syllabus. The answers to all of these questions are referenced to the text listed as required reading for this rotation.

Scheduling The exam is self-scheduled. It may be scheduled during the last few days of the rotation, but must be taken no later than two weeks after the rotation ends.

Computer requirement The same as for the pre-rotation exam.

Limitations The student may only attempt to take this post-test once just as for the pre-rotation exam.

Scoring Upon submitting the exam, the student will receive a score along with the correct answers and information on the chapter of the required text on which the question is based.

Honor Code The OU-COM Honor Code guides student behavior related to this exam. At the end of the exam, the student is required to enter New Innovations to complete and submit the Honor Code form. The student will not receive a passing grade for the clerkship unless this form is documented on New Innovations.

Time Penalty Blackboard will alert the student when one minute remains to complete the exam. Blackboard does **not** automatically stop the test when the time limit is reached. The student must manually submit the exam within 1 minute of receiving the 1-minute warning. ***The exam score will be reduced by 2 points for every minute that the limit is exceeded.*** If the student exceeds the time limit, s/he will be notified via e-mail that the score has been reduced.

Reassessment Failure to achieve a 60 percent on the examination will result in a second opportunity to take the exam. The student may retake this exam no sooner than 48 hours after completion of the first post-clerkship exam. In the event of a second failure to achieve a score of 60 percent, the student will meet with the CORE assistant dean to discuss areas of knowledge deficiency and to construct a plan for remediation.

b. The Preceptor's Written Evaluation

A student must receive a passing grade from the preceptor in order to pass the rotation. If the preceptor considers the student ***Marginal***, then a remediation recommendation should be made by the CORE Assistant Dean, in consultation with the preceptor, and submitted to the Associate Dean for approval. If the preceptor fails the student, the student is awarded a grade of "F" for the rotation regardless of the grade s/he received on

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the post-rotation exam. The failure must be forwarded to the CSP. **NOTE: It is the responsibility of the student to ensure that the preceptor's evaluation is submitted to the CORE office within 2 weeks of the end of the rotation.**

6. Recommended Resources

The following resources have been identified for this rotation by the instructor of record. Note: Post-rotation exam questions are referenced to the required texts.

Required:

Lawrence, P., Bell, R., & Dayton, M. (2006). *Essentials of general surgery* (4th ed.). Baltimore: Lippincott Williams & Wilkins.

Reference for additional information:

Townsend, C. (2008). *Sabiston textbook of surgery* (18th ed.). Philadelphia: Elsevier.

Shires, T., Spencer F., Daly, J., Fischer, J., & Galloway A. (2005). *Schwartz principles of surgery* (8th ed.). New York: McGraw-Hill. Also available on AccessMedicine

See the Class of 2010 Year 3 and 4 Student Manual booklist for a list of resources approved for ALL rotations.

7. Standards of Professional Conduct

The OU-COM Honor Code applies to all activities in the CORE as well as on the Athens campus. "As a member of the medical profession, I will maintain the highest standards of academic and personal behavior. As a medical student I will not cheat or plagiarize or tolerate that behavior in others." OU-COM Honor Code

Students are encouraged to study together and to share their knowledge freely with one another during the learning process. During examinations, however, no assistance from other students or from outside sources is allowed, unless explicitly permitted by the CORE office. Books, notes, and other materials must be left at the periphery of the testing area during examinations.

Professional standards required of a member of the Osteopathic profession are a requirement for passing this rotation, as is compliance with the professional standards of the hospital and outpatient offices of the student's preceptor. Students are expected to maintain high professional standards of behaviors. They should exhibit such personal characteristics as honesty and integrity, as well as to maintain patient confidentiality at all times. Unprofessional behavior may result in a failing grade in this rotation, regardless of other academic performance on this rotation, and could subject the student to dismissal from the hospital in which they are based. Professional conduct shall be evaluated by the CORE Assistant Dean through observation of and interaction with the student, his/her preceptor, other hospital attending physicians and staff.

8. Tips for Successfully Completing the Rotation

Success on this rotation requires the student to be proactive. Taking an interest in the specialty and becoming an active team member of the service is critical to learning in a clinical setting. Remember, the clinical learning environment differs from the classroom. The student will be expected to think on his/her feet and learn as s/he goes. To capitalize on *the learning moment*, seek out opportunities to ask questions and speak up appropriately.

In addition, be sure to:

- review the syllabus to understand all requirements
- discuss with the preceptor previous clinical experiences and personal goals and objectives for this rotation
- clarify the preceptor's expectations of performance early on in the clerkship
- come prepared to take advantage of the opportunities this rotation has to offer

If there are any questions, please contact the CORE Administrator or CORE Assistant Dean.

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Skills and Procedures List

Appendix A

Abdominal Aortic Aneurysms	Drain placement/management
ABG interpretation	Dressing placement
Adenoidectomy	Ear lavage
Administration of blood and blood products	Echocardiogram
Airway management/intubation	EGD
Anesthesia, general	EKG
Anesthesia, regional	EKG interpretation
Aorto-femoral bypass	Electromyogram (EMG)
Appendectomy	Endarterectomy
Arterial Catheter Insertion	Endoscopy
Arterial puncture	Excision, skin lesion
Arthrocentesis	Fine needle aspiration
Arthroscopy	Foreign body removal from ear
Atherectomy	Foreign body removal from eye
AV fistula	Foreign body removal from nose
Balloon angioplasty	Foreign body removal from skin
Biopsy procedures (skin, organ)	Foreign body removal from throat
Biopsy, Stereotactic Breast	Fracture reduction
Bladder catheter insertion (Foley)	Functional endoscopic sinus surgery
Bone Marrow Aspiration/ Biopsy	Gastric lavage
Bowel resection	Glucose by fingerstick
Breast examination	Hemicolectomy
Breast surgery - lumpectomy	Hemithyroidectomy
Breast surgery - mastectomy	Hemocult
Bronchoscopy	Hernia repair
cardiac catheterization	Hysterectomy
Carotid Endarterectomy	Hysteroscopy
Cast application	Ileocelectomy
Cast removal	Imaging CT
Cataract surgery	Imaging MRI
Cerumen removal	Imaging x-ray
Chest tube insertion	Incision and drainage of abscess
Chest tube removal	Incision closure
Cholecystectomy	Injections, Intradermal
Circumcision	Injections, intramuscular
Colonoscopy	Injections, intravenous
Colposcopy	Injections, joint
Comprehensive Hx (new admit/new patient)	Injections, subcutaneous
CPR	Intravenous Catheter Insertion - Peripheral
cryosurgery	Intravenous Catheter Insertion - Central
Culture, blood	IVC filter placement
Culture, sputum	Laceration/wound stapling
Culture, stool	Laceration/wound suturing
Culture, throat	Laparoscopic surgery
Culture, urine	Laryngoscopy
Culture, vagina	Liver lobectomy
Culture, wound	Lumbar puncture
D&C	Medial epicanthal cyst removal
Debridement	Nasal packing
Dislocated shoulder reduction	NG tube placement
	OMT 1-2 regions
	OMT 3-4 regions

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OMT 5-6 regions	Staple removal
OMT 7-8 regions	Steri-strip application
Ophthalmoscopic exam	Submandibular node excision
Osteopathic Exam	Surgical site prep
Pacemaker insertion	Suture line revision
Pap smear	Suture removal
Parathyroidectomy	Taping procedure for sprains etc
Patient education	Thoracentesis
PEG tube placements	Thoracoscopy
Pelvic exam	Thyroidectomy
Peritoneal lavage	Tonometry
PFT interpretation	Tonsillectomy
PPD interpretation	Total Parenteral Nutrition (TPN)
Prescription writing	Tracheostomy
Rectal exam	Transfusion, blood and blood products
Rhinectomy	Tubal ligation
Sclerotherapy	Tuberculosis Testing
Septoplasty	Tympanometry
Sigmoidoscopy (flexible)	Ultrasound
Sigmoidoscopy (rigid)	Urinalysis (dipstick and microscope)
Skin graft	Vascular bypass graftings
SOAP notes	Vasectomy
Sphincterotomy	Venipuncture (for blood sampling)
Splint application	Visual acuity/visual field testing
Splint removal	Wart Removal