



# Edward Via College of Osteopathic Medicine

## 4<sup>th</sup> Year Clinical Rotation: Urology

MED 8300: Surgical Selective Clinical Rotation I  
MED 8301: Surgical Selective Clinical Rotation I  
MED 8310: Surgical Selective Clinical Rotation II  
MED 8311: Surgical Selective Clinical Rotation II

## COURSE SYLLABUS

---

### Chair

### Contact Information

---

Michael Breiner, MD  
Chair of Surgery - VC

Phone: 540-231-0600  
Email: [mbreiner@vcom.vt.edu](mailto:mbreiner@vcom.vt.edu)

---

Tom Lindsay, DO  
Associate Chair of Surgery - CC

Phone: 864-327-9842  
Email: [tlindsey@carolinas.vcom.edu](mailto:tlindsey@carolinas.vcom.edu)

---

Paul Brisson, MD  
Chair of Surgery - AC

Phone: 334-442-4023  
Email: [pbrisson@auburn.vcom.edu](mailto:pbrisson@auburn.vcom.edu)

---

### I. Rotation Description

Students will develop or refine the skills and knowledge necessary to elicit a complete and focused urologic history, perform a complete genito-urinary examination and evaluate/determine medical treatment of urologic problems.

### II. Rotation Goals

- a. Elicit the following historical information from a patient:
  1. Continence/patterns of incontinence
  2. Sexual history
  3. Pertinent family psychosocial history
  4. Renal stones/colic
  5. Urinary tract infections
  6. Urologic impairments related to bladder and sexual function
  7. Prostatism/prostate enlargement symptoms
- b. Determine the following by physical examination:
  1. Osteopathic examination of the lumbar, thoracic and trunk as they relate to Urologic disorders
  2. Osteopathic examination of the pelvis and abdomen as they relate to Urologic disorders
  3. Identify congenital anomalies of a child
  4. Perform a male external genitalia/testicular exam
  5. Perform a female external genitalia/urethral orifice exam
  6. Perform a prostate exam

---

MED 8300: Surgical Selective Clinical Rotation I: Urology  
MED 8301: Surgical Selective Clinical Rotation I: Urology  
MED 8310: Surgical Selective Clinical Rotation II: Urology  
MED 8311: Surgical Selective Clinical Rotation II: Urology

- c. Diagnose the following Urologic conditions, including:
  - 1. Recurrent UTI
  - 2. Renal Colic
  - 3. Urogenital neoplasia
  - 4. Erectile dysfunction/impotence
  - 5. Benign prostatic hypertrophy
  - 6. Infertility
  - 7. Sexually transmitted disease
  - 8. Vesico-ureteral reflux
  - 9. Hematuria
  - 10. Enuresis
- d. Interpret laboratory tests, including:
  - 1. Urinalysis
  - 2. Urine culture
  - 3. Sensitivity
  - 4. Prostatic
  - 5. Specific antigen
  - 6. Urodynamic studies
  - 7. Intravenous pyleogram
  - 8. Renal ultrasound
  - 9. Voiding cystourethrogram
  - 10. Semen analysis
- e. Demonstrate proficiency in performing the following techniques and procedures:
  - 1. Genito-urinary examination
  - 2. Bladder catheterization
  - 3. Management of incontinence
  - 4. Management of sexual dysfunction
  - 5. Management of prostate disease
  - 6. Interpretation of laboratory tests
  - 7. Management of sexually transmitted disease
- f. Demonstrate understanding of the following techniques and procedures:
  - 1. Vasectomy
  - 2. Infertility work-up

### III. Rotation Design

The Urology rotation occurs in an office setting and surgical center or hospital OR.

### IV. Credits

4 week course = 4 credit hours

2 week course = 2 credit hours

### V. Suggested Textbook and References

- a. Campbell's *Urology*, 9<sup>th</sup> ed.
- b. *Urology* (House Officer Series), 5<sup>th</sup> ed.

### VI. Course Grading/Requirements for Successful Completion of the Urology Rotation

- a. Attendance according to VCOM and preceptor requirements
- b. Preceptor Evaluation at end-of-rotation

Grading policies, academic progress, and graduation requirements may be found in the *College Catalog and Student Handbook* at: <http://www.vcom.vt.edu/catalog/>.

## VII. Clinical Performance Objectives

The end-of-rotation evaluation for this rotation will be completed by your preceptor and is based on clinical core competencies. These core competencies reflect student performance in 6 key areas: communication, problem solving, clinical skills, medical knowledge, osteopathic medicine and professional and ethical considerations. Your end-of-rotation evaluation from your preceptor will be based directly on your performance in these 6 core competencies as described below.

- a. Communication - the student should demonstrate the following clinical communication skills:
  1. Effective listening to patient, family, peers, and healthcare team
  2. Demonstrates compassion and respect in patient communications
  3. Effective investigation of chief complaint, medical and psychosocial history specific to the rotation
  4. Considers whole patient: social, spiritual & cultural concerns
  5. Efficiently prioritizes essential from non-essential information
  6. Assures patient understands instructions, consents & medications
  7. Presents cases in an accurate, concise, well organized manner
  
- b. Problem Solving – the student should demonstrate the following problem solving skills:
  1. Identify important questions and separate data in organized fashion organizing positives & negatives
  2. Discern major from minor patient problems
  3. Formulate a differential while identifying the most common diagnoses
  4. Identify indications for & apply findings from the most common radiographic and diagnostic tests
  5. Identify correct management plan considering contraindications & interactions
  
- c. Clinical Skills - the student should demonstrate the following problem solving skills:
  1. Assesses vital signs & triage patient according to degree of illness
  2. Perform good auscultatory, palpatory & visual skills
  3. Perform a thorough physical exam pertinent to the rotation
  
- d. Osteopathic Manipulative Medicine - the student should demonstrate the following skills in regards to osteopathic manipulative medicine:
  1. Apply osteopathic manipulative medicine successfully when appropriate
  2. Perform and document a thorough musculoskeletal exam
  3. Utilize palpatory skills to accurately discern physical changes that occur with various clinical disorders
  4. Apply osteopathic manipulative treatments successfully
  
- e. Medical Knowledge – the student should demonstrate the following in regards to medical knowledge:
  1. Identify & correlate anatomy, pathology and pathophysiology related to most disease processes
  2. Demonstrate characteristics of a self-motivated learner including demonstrating interest and enthusiasm about patient cases and research of the literature
  3. Are thorough & knowledgeable in researching evidence based literature
  4. Actively seek feedback from preceptor on areas for improvement
  5. Correlate symptoms & signs with most common diseases

- f. Professional and Ethical Behaviors - the student should demonstrate the following professional and ethical behaviors and skills:
1. Is dutiful, arrives on time & stays until all tasks are complete
  2. Consistently follows through on patient care responsibilities
  3. Accepts & readily responds to feedback, is not resistant to advice
  4. Assures professionalism in relationships with patients, staff, & peers
  5. Displays integrity & honesty in medical ability and documentation
  6. Acknowledges errors, seeks to correct errors appropriately
  7. Is well prepared for and seeks to provide high quality patient care
  8. Identifies the importance to care for underserved populations in a non-judgmental & altruistic manner
- g. Osteopathic Manipulative Medicine Components
- Students must be familiar with the OMM didactic and workshop requirements for their OMS-4 year as described in the Osteopathic Manipulative Medicine website.