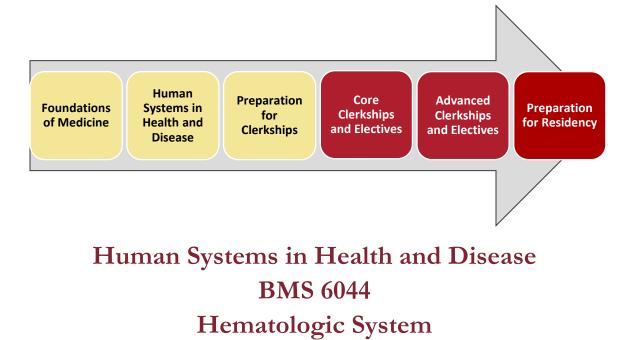
# MEDICINE



Florida State University College of Medicine



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# **Course Goals**

In the Hematologic System course students acquire a fundamental knowledge of the structure, function and diseases of the hematopoietic system. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application. Knowledge is used to explain the clinical findings of common hematological disorders affecting the red blood cells (anemia and polycythemia), the white blood cells (leukocytosis, leukopenia, leukemia and lymphoma), hemostasis (thrombosis and hemorrhage), the spleen (splenomegaly) and the thymus (thymic dysfunction and thymoma). Knowledge of the various functions of the white blood cells acquired in Host-Defense in year 1 is further developed through elaboration on the neoplastic pathobiology of these cells. Students learn how to interpret the results of the fundamental laboratory tests used in hematology, such as the complete blood count (CBC), basic coagulation tests such as prothrombin time (PT) or partial thromboplastin time (PTT) and, whenever indicated, the myelogram from marrow aspiration and reports of bone and marrow biopsy. Students also learn how to select appropriate additional tests in a cost effective and evidence-based approach. COM mission-based domains are underscored in specific objectives that address important issues in geriatric, rural and other underserved populations, such as therapeutic goals in the use of medications such as anticoagulants in elderly patients. Curricular themes such as cultural issues, ethics, and public health are developed as essential components in clinical encounters with standardized patients and in case studies, for example, patient safety and informed consent in blood transfusions, and disparities in blood-borne disease associated with socioeconomic status. Students completing the Hematologic System block will understand the structure and function of the hematopoietic system in health and disease. They will also develop a strong appreciation of how hematopoietic cells are formed and destroyed and how disruption of this delicate equilibrium results in anemia, bleeding diathesis or infection. The course also addresses the basics of transfusion medicine. Mastery of these concepts lays the foundation that will enable students to appropriately diagnose and manage patients with common hematological diseases.

# Course Objectives mapped to Education Program Objectives (EPOs)

|    | Course Objectives  | EPOs                  | Means of Assessment          |
|----|--|-----------------------|------------------------------|
| H1 | Demonstrate effective communication with patients and their families<br>from diverse backgrounds, including culturally and linguistically<br>appropriate interviewing skills, appropriate use of an interpreter, and<br>culturally appropriate verbal and non-verbal behaviors that promote<br>building rapport and trust, and accurate and appropriate vocabulary<br>and concepts about hematologic disorders and diseases. | 4.1                   | CLC checklists               |
| H2 | Demonstrate the ability to perform, interpret and report the results of pertinent history, physical examination and diagnostic testing regarding the hematologic system across the lifespan.   | 1.2, 1.4              | CLC checklists               |
| Н3 | Describe the basic physical properties and imaging characteristics of ultrasound, and identify opportunities, advantages, and limitations for its point-of-care use related to the hematologic system.   | 1.4, 2.3              | Quizzes                      |
| H4 | Demonstrate clinical skills and clinical reasoning necessary for<br>diagnosis, evaluation, and management of hematologic disorders and<br>diseases, including selection and interpretation of appropriate<br>laboratory or imaging tests and development of a management plan.   | 1.2, 1.4,<br>1.6, 2.3 | I notes: Ouizzes and         |
| H5 | Compare and contrast the structures and functions of the<br>hematopoietic cells and organs (bone marrow, spleen, thymus and<br>lymph nodes) and describe the mechanisms of the hematological<br>disorders, including genetic and environmental factors, and anticipate<br>the clinical effects expected to result from disease, injury, or<br>environmental factors impacting the hematologic system                         | 2.2, 2.3              | Quizzes and NBME CAS<br>exam |
| H6 | Identify, describe and distinguish tissue and cell types using photomicrographs and by virtual microscopy  | 2.2                   | Quizzes and NBME CAS exam    |

|      |   |                       | I  |
|------|---|-----------------------|--|
| H7   | Interpret clinical presentations, including symptoms, signs and/or<br>laboratory findings based on an understanding of the structure and<br>function of the hematopoietic cells and organs, and communicate<br>diagnostic information and reasoning, intervention options, and a<br>suggested plan of care with truthfulness, sensitivity, and empathy  | 2.2, 2.3,<br>2.4, 4.4 | Quizzes and NBME CAS<br>exam   |
| H8   | Explain the physiological and psychosocial aspects of disease<br>progression for the hematological disorders and describe their<br>appropriate prevention and management, including pharmacological<br>and non-pharmacological approaches.  | 2.2, 2.3,<br>2.4      | Quizzes and NBME CAS<br>exam   |
| Н9   | Describe principles of pharmacologic and non-pharmacologic treatment<br>and strategies for the prevention and management of hematologic<br>disorders using principles of high value care, and demonstrate<br>knowledge of the medications used in their treatment, including<br>mechanism of action, kinetics, major adverse effects and drug<br>interactions.  | 2.2, 2.3,<br>2.4, 2.5 | Quizzes and NBME CAS<br>exam   |
| H 10 | Demonstrate the ability to recognize when one has reached the limits of their knowledge when applying it to understanding clinical problems.  | 3.1                   | Self-assessment  |
| H 11 | Demonstrate an understanding of biostatistics and epidemiology<br>concepts and their application in health care, the ability to interpret<br>and appraise the validity of study design and results in the medical<br>literature, and the ability to apply these skills in a systematic approach<br>to clinical problem solving.   | 2.4, 2.6              | Quizzes and NBME CAS<br>exam; PICO<br>assignment; Critical<br>reading assignment                 |
| H 12 | Apply the principles and methods of Evidence-Based Medicine to acquire, appraise, and assimilate new clinical information to improve patient care   | 2.4, 2.6              | PICO assignment  |
| H13  | Demonstrate effective communication with colleagues and other health<br>professionals, and the ability to clearly and accurately summarize<br>patient findings in verbal presentations and common written formats.  | 4.2, 4.5,<br>7.1      | SOAP note  |
| H14  | Identify social determinants of health and discuss their relationship to health and wellness, including for underserved populations   | 2.5, 9.1,<br>9.2      | Quizzes and NBME<br>CAS exam   |
| H15  | Engage in self-evaluation and reflection, including related to cultural,<br>moral and ethical issues encountered in the care of patients, to identify<br>biases, to develop self-awareness of knowledge, skill and emotional<br>limitations, to set learning and improvement goals, and to engage in<br>appropriate help-seeking behaviors  | 3.1, 3.2              | Self-assessment  |
| H16  | Demonstrate professional attitudes and behavior in all interactions with<br>faculty, staff, peers, and patients, and in all activities, including:<br>maintaining confidentiality for patients who participate in the course;<br>demonstration of respect, empathy, compassion, responsiveness and<br>concern regardless of the patent's problems or personal characteristics;<br>integrity and adherence to ethical standards including informed<br>consent; and completion of all required activities in a timely fashion | 5.1, 5.2,<br>5.3, 5.4 | Observation by faculty,<br>staff, peers, and<br>standardized patients;<br>Specifications Grading |

Detailed learning objectives are provided for each session in the course.

# **Course Format**

The course emphasizes **engaged** and **active learning** through a variety of individual, interactive large group, case-based small group learning activities as well as standardized patient encounters in the Clinical Learning Center, and a Preceptorship experience in the office of a primary care physician in the community. The purpose of the preceptorship is to provide the student with the opportunity to practice history taking, physical examination skills, clinical reasoning skills, documentation skills and to observe patient care being delivered in a community-based setting. Students will be scheduled to spend a minimum of 3 hours with the preceptor on each of 3 visits. Formative on-line assessment materials emphasize the development of thinking skills through analysis of data and cases, including biostatistics and epidemiology and NBME/USMLE-type questions. Students are expected to self-assess their learning needs and set goals to address them with the aid of faculty and their learning groups.

# Didactic Sessions (On-line modules; Large Group Sessions 1200, Auditorium)

Formal in-person lectures are limited in number during the course, in favor of asynchronous basic science modules and interactive large group sessions. This learner-centered approach uses the principles of active and adult learning. Content preparation during scheduled Independent Study time provides students maximum flexibility in time management. Importantly, it allows in-person time to take maximum advantage of faculty expertise to consolidate learning through active discussion, application exercises, quizzes, and other instructional methodologies. Asynchronous preparation assignments cover required didactic content through a variety of materials including online modules that replace traditional lectures, OnlineMedEd lessons, self-assessment exercises, and textbook and journal readings. Interactive exercises apply and extend that knowledge through clinical case-based inquiry. Success depends on student engagement, preparation, and trust in the safe environment we maintain to encourage students to be curious and even to take intellectual risks. **The emphasis is on developing integrated basic and behavioral science concepts in a clinical context**. Whenever possible, real patients will be present to share their stories and demonstrate signs of their disease. Whenever patients are present, we ask that students wear their white coats and close their computers and other mobile devices as demonstration of respect for these wonderful patients who are willing to help us learn.

# Small Group Sessions (LCs, attendance required)

Small group exercises are case- and/or problem-oriented. Some sessions pattern thinking through progressive disclosure, others focus on concept development through guided engagement with data, while others employ the Jigsaw paradigm to focus on discovering similarities and differences of presentations or aspects of disease – the basis of differential diagnosis. Small group exercises are designed for engaged and active learning and emphasize reasoning, hypothesis formation, and hypothesis testing. The groups evaluate cases in terms of stated objectives and define additional learning objectives. Once each week a small group of 10 students meets with a clinician facilitator in exercises focused on development of clinical reasoning. In all small group exercises, all members of the group share responsibility for analyzing and explaining the clinical presentations. The value of small group exercises is not always the "answer," but the reasoning behind it. During small group exercises, you are free to use any resources (unless otherwise instructed).

# Clinical Learning Sessions (CLC) (attendance required)

Throughout the course learners will continue to develop their clinical skills and clinical reasoning during individual or paired SP encounters in the CLC. These encounters will not be restricted to the exam or problems associated with the hematologic system. They will often include reviews of prior organ systems and demonstrations of how systems intersect and impact one another.

# **PICO Assignment**

**PICO** is a format physicians can use for converting clinical scenarios to **researchable** and **answerable** questions to provide evidence-based care of patients. This format can be used to answer questions about treatment, diagnosis, risk factors, etiology, statistics and phenomena.

- **P** = Patient, Population and/or Problem
- I = Intervention, treatment, Prognostic factor, and/or Exposure (Which specific are you considering?)
- C = Comparison and/or Control (What is the main alternative to the above?)
- **O** = Outcome (What are you trying to accomplish, improve, or effect?)

During the **Hematopoietic System** course each student will develop a clinically relevant question, framed using the PICO format. Students will independently research the answer to their question, evaluate, and report the results of their search. The completed assignment is to be submitted *via* Canvas **no later than 5:00 pm, Friday, January 12, 2024**. Supporting materials and suggestions about PICO questions and EBM resources for answering these questions are available with the assignment on Canvas.

#### Critical Reading/Critical Analysis of Literature Assignment (aka Journal Club)

Each course in the fall and spring semesters of the pre-clerkship curriculum includes one or more large or small group sessions related to the interpretation of primary literature. Prior to each of these required sessions, each student reads the assigned paper and completes and submits the guided reading template posted on Canvas. This guided reading template – which reflects the organization of the *New England Journal of Medicine Quick Takes* format – helps develop student skills that are critical for interpreting primary literature necessary for practicing Evidence-based

Medicine and for keeping up with important biomedical research. In Host-Defense, assigned student pairs will collaborate to complete the template for one of three Journal Club papers, prior to a small group application exercise. Submission of the completed template is **due no later than 5:00 PM Thursday, January 18, 2024**.

## Professionalism

Medicine is a Profession, which means it entails unique responsibilities and obligations as well as unique privileges. "Professional identity formation" is an objective as important as learning the sounds and anatomy of the heart, but requires a different set of learning skills. Important among those are integrity, reflection, self- and peer assessment, deliberate practice, and learning for mastery (not grades).

Two essential Professional behaviors that will become a part of your everyday life are founded on respect for patients:

## Confidentiality:

Patients — including Standardized Patients and the cadavers — deserve to be treated with respect. Respect for patients includes keeping all patient information confidential. Patient information may be shared with other health care professionals that have a legitimate, professional "need to know," or with specific family members, friends, or others that have permission from the patient for access to the information.

Be especially conscious about discussions of patients in public places. Even when patient names are not used, the discussion may reveal the patient's identity to others who overhear the discussion. Rather than risk a violation of patient confidentiality, discuss patients only in a private setting and only with individuals who have a legitimate need to know.

Be careful to keep all patient notes, reports and materials confidential. Patient records, should be returned to faculty, destroyed, or kept in a secure place.

Similarly, your classmates deserve to be treated with respect. Information learned about your classmates and their families while in class is considered confidential. You are not free to disclose this material to others without the specific consent of the person.

Violation of confidentiality may result in a **Report of Concern for Unprofessional Behavior** and may be referred to the Student Evaluation and Promotion Committee (SEPC). Egregious unprofessional behavior of any variety may result in suspension of the student, a failing grade for the course, and/or referral to SEPC.

## **Professional Attire**

Medical students, faculty and staff are all ambassadors and representatives of the College of Medicine and of the medical profession. Appearance and behavior should at all times demonstrate respect for the profession and for our patients. The needs of patients must always come first, and any barriers to meeting those needs (including attire, appearance and grooming) must be removed.

Professional attire should be worn in settings where students interact with people from outside the COM, and particularly when interacting with Standardized Patients (SPs) in the CLC, on a "house visit," or when in a preceptor's office or clinic, a hospital or nursing facility. Professional attire should also be worn when patients, guests, or visitors are present in large or small group sessions.

Specific standards for professional attire are detailed <u>at the end of this document</u> and can always be found on the course Canvas site (the University Learning Management System).

# **Course Content**

Spanning all modules of this course, continued development of clinical reasoning and clinical skills focuses on advanced history taking, advanced physical exam maneuvers, and the interpretation of common diagnostic tests relevant to these systems. Standardized patient interactions continue with emphasis on clinical reasoning skills using problem oriented and chronic disease encounters that are not limited to course-specific content.

The Hematologic System course is organized in 3 modules.

#### Red blood cells (RBCs)

- RBC production and destruction
- Common clinical conditions: anemias, polycythemias
- Interpretation of laboratory tests

#### White blood cells (WBCs)

- WBC production and destruction
- Common clinical conditions: e.g. leukocytosis, leukopenia, leukemia, lymphoma
- Interpretation of laboratory tests

#### **Coagulation and Bleeding Disorders**

Coagulation cascade

- Hemostasis
- Common clinical conditions: e.g. thrombocytosis, thrombocytopenia, hemophilia, complications of infectious diseases
- Interpretation of laboratory tests

#### Required Materials (All required texts are available as ebooks through COM library page)

<u>OnlineMedEd</u> – Individual subscription provided by the COM (login with your COM email address) Basic and Clinical Pharmacology (Katzung) Bates Guide to Physical Examination and History Taking Behavioral Science in Medicine (Fadem) Cecil Essentials of Medicine (Wing) Histology: A Text and Atlas With Correlated Cell and Molecular Biology (Ross) How the Immune System Works (Sompayrac) Physiology (Costanzo) Resolving Ethical Dilemmas: A Guide for Clinicians (Lo) Robbins and Cotran Pathologic Basis of Disease (Kumar) Sherris Medical Microbiology (Ryan) Smith's Patient-Centered Interviewing: An Evidence-Based Method (Fortin) Understanding Health Policy: A Clinical Approach (Bodenheimer)

Additional required readings will be assigned from a variety of sources. These readings will be provided to you and posted on Canvas when possible.

Additional materials required for clinical sessions

- a. Clinical examination equipment: Each student must purchase and/or have available the following clinical examination equipment: stethoscope with diaphragm, bell and pediatric option, oto/ophthalmoscope, #128 and #512 tuning forks, penlight, reflex hammer, Rosenbaum eye chart and a sphygmomanometer with pediatric, adult, and large adult sized cuffs. Opportunities to purchase this equipment at a discount will be provided prior to orientation. Bring your examination equipment with you to <u>each</u> CLC session.
- b. Also bring the following to each session in the CLC:
  - A watch capable of measuring seconds
  - A pen for writing (blue or black ink)
  - The student's personal mobile device loaded with the appropriate medical software/applications.

# Hematopoietic System: Detailed course schedule IN PERSON SESSIONS are HIGHLIGHTED

| Wk     | Day   | Content   | Video/Class Time | Comments        |
|--------|-------|---|------------------|-----------------|
|        | Mon   | New Year's Day – No classes                               |                  |                 |
|        |       | HemeOnc 1 Introduction - Notes, Video                     | 24:49            | OnlineMedEd     |
|        |       | HemeOnc 1 Hematopoiesis - Notes, Video                    | 20:44            | OnlineMedEd     |
|        | Tues  | Introduction to the course                                | 50:00            | Zoom            |
|        |       | Hematopoiesis and peripheral blood cell morphology        | 23:19            | Diaz video, PPt |
|        |       | CLC   |                  |                 |
|        |       | HemeOnc 1: Laboratory interpretation Notes, Video         | 26:25            | OnlineMedEd     |
|        |       | HemeOnc 2: Hemoglobin Notes, Video                        | 25:40            | OnlineMedEd     |
|        |       | HemeOnc 2: Approach to anemia Notes, Video                | 23:45            | OnlineMedEd     |
|        | Wed   | Abnormal RBC exercise                                     |                  | PPt, Quiz       |
|        |       | Discussion of abnormal RBC exercise                       | 17:26            | Diaz video, PPt |
|        |       | CBC and lab work-up of anemia                             | 25:04            | Diaz video, PPt |
| H      |       | CLC   |                  |                 |
| Week 1 |       | HemeOnc 2: Iron regulation – Notes, Video                 | 16:32            | OnlineMedEd     |
| Š      |       | HemeOnc 2: Microcytic anemia – Notes, Video               | 24:51            |                 |
|        |       | Microcytic anemia: Iron deficiency                        | 16:18            | Diaz video, PPt |
|        | Thurs | Microcytic anemia: Thallasemias                           | 18:10            | Diaz video, PPt |
|        |       | Clinical skills large group                               | 50:00            |                 |
|        |       | Clinical skills small group                               | 90:00            |                 |
|        |       | HemeOnc 2: Macrocytic anemia – Notes, Video               | 26:29            | OnlineMedEd     |
|        |       | HemeOnc 2: Normocytic anemia – Notes, Video               | 33:57            | OnlineMedEd     |
|        |       | HemeOnc 2: Disorders of heme synthesis – Notes, Video     | 24:52            | OnlineMedEd     |
|        |       | Anemia case exercise                                      |                  |                 |
|        | Fri   | Macrocytic anemias  | 18:12            | Diaz video, PPt |
|        |       | Hemolytic anemias - Intrinsic                             | 23:26            | Diaz video, PPt |
|        |       | Clinical work-up of anemia                                | 50:00            | Appelbaum       |
|        |       | Discussion of anemia cases exercise                       | 12:02            | Diaz video, PPt |
|        |       | HemeOnc 1: Laboratory interpretation – Notes, Video       | 26:25            | OME review      |
|        |       | HemeOnc 2: Normocytic anemia – Notes, Video               | 33:57            | OME review      |
|        |       | Hemolytic anemias - extrinsic                             | 13:38            | Diaz video, PPt |
|        | Mon   | Aplastic anemias  | 16:20            | Diaz video, PPt |
|        | WIGHT | Laboratory and clinical evaluation of leukocytosis and    | 10.20            |                 |
|        |       | leukopenia  | 27:41            | Diaz video, PPt |
|        |       | Sickle cell anemia and other hemoglobinopathies           | 18:26            | Diaz video, PPt |
|        |       | HemeOnc 2: Iron regulation – Notes, Video                 | 16:32            | OME review      |
|        |       | HemeOnc 2: Macrocytic anemia – Notes, Video B12 and       | 10.52            |                 |
|        |       | folate  | 26:29            | OME review      |
|        |       | Abnormal WBC exercise                                     |                  | PPt, Quiz       |
|        | Tues  | Discussion of the Abnormal WBC exercise                   |                  |                 |
|        | Tues  | REQUIRED QUIZ 1   | 30:00*           | Individual only |
|        |       | Iron, B12, and folic acid supplementation                 | 50:00            | Graham          |
|        |       | Q & A   | 50:00            | Diaz            |
|        |       |   | 50.00            |                 |
|        |       |   |                  |                 |
|        |       | Immunology: Taxonomy of lymphoid organs – Notes,<br>Video | 17:24            | OME review      |
| k 2    | Wed   | Microbiology 5: Protozoa transmitted by insects, Malaria  | 15:39            | OME review;     |
| Week 2 |       | – Notes, Video  | 13.35            | Begins at 10:30 |
| 5      |       | OPTIONAL Histology Module – Lymphoid organs               | ∑ 56:20          |                 |

|       | Histology of lymph nodes: Laboratory and clinical          |        |                                      |
|-------|--|--------|--------------------------------------|
|       | evaluation of adenopathy                                   | 16:10  | Diaz video, PPt                      |
|       | Histology of spleen: Laboratory and clinical evaluation of |        |                                      |
|       | splenomegaly   | 10:28  | Diaz video, PPt                      |
|       | Malaria and infectious diseases of blood                   | 50:00  | Rizkallah                            |
|       | Antimalarial drugs   | 50:00  | Nemec                                |
|       | CLC  |        |                                      |
|       | HemeOnc 4: Introduction to proliferation – Notes, Video    | 28:26  | OnlineMedEd                          |
|       | HemeOnc 4: Myeloproliferative disorders – Notes, Video     | 20:14  | OnlineMedEd                          |
|       | HemeOnc 4: Leukemia  | 26:47  | OnlineMedEd                          |
|       | REQUIRED: Critical analysis of literature assignment       |        | Due no later<br>than 5 PM            |
| Thurs | REQUIRED: PICO assignment                                  |        | Due no later<br>than 5 PM            |
| indis | Histology of thymus: Laboratory and clinical evaluation    | 0.25   |                                      |
|       | of thymic mass   | 9:35   | Diaz video, PPt                      |
|       | Acute myeloid leukemia                                     | 27:39  | Diaz video, PPt                      |
|       | Myelodysplastic syndromes                                  | 11:40  | Diaz video, PPt                      |
|       | Clinical skills LG   | 50:00  |                                      |
|       | Clinical skills SG   | 90:00  |                                      |
|       | HemeOnc 4: Myeloproliferative disorders – Notes, Video     | 20:14  | OME review                           |
|       | HemeOnc 4: Lymphoma – Notes, Video                         | 29:24  | OnlineMedEd                          |
|       | Meyloid neoplasia case exercise                            |        | PPt                                  |
|       | Chronic myeloproliferative disorders                       | 20:35  | Diaz video, PPt                      |
| Fri   | Lymphoid leukemias   | 28:40  | Diaz video, PPt                      |
|       | Discussion of Myeloid neoplasia case exercise              | 6:45   | Diaz video, PPt                      |
|       | REQUIRED Critical analysis of literature Small Groups      | 50:00  | ,                                    |
|       | Critical analysis of literature                            | 50:00  | Granville                            |
| Mon   | Martin Luther King Day – No classes                        |        |                                      |
|       | HemeOnc 4: Lymphoma – Notes, Video                         | 29:24  | OME review                           |
|       | Non-Hodgkin lymphoma and myeloma                           | 28:23  | Diaz video, PPt                      |
|       | Myeloma  | 14:34  | Diaz video, PPt                      |
| Tues  | Hodgkin lymphoma and histiocytosis                         | 25:15  | Diaz video, PPt                      |
|       | REQUIRED QUIZ 2  | 30:00* | Individual only                      |
|       | Q & A  | 50:00  | ,<br>Diaz                            |
|       | CLC  |        |                                      |
|       | HemeOnc 1: Introduction to hematology NOTES on transfusion |        | OnlineMedEd<br>NOTES                 |
| Wed   | Bone marrow transplantation                                | 23:56  | Diaz video, PPt                      |
|       | Transfusion medicine                                       | 15:08  | Diaz video, PPt                      |
|       | CLC  |        |                                      |
|       | HemeOnc 3: Hemostasis – Notes, Video                       | 26:09  | OnlineMedEd                          |
|       | HemeOnc 3: Thrombophilia – Notes, Video                    | 23:39  | OnlineMedEd                          |
|       | Microbiology 3: DNA viruses – Notes, Video                 |        | OME review<br>EBV begins at<br>24:32 |
| Thurs | Lymphoid neoplasia case exercise                           |        |                                      |
|       | Discussion of Lymphoid neoplasia case                      | 11:10  | Diaz video, PPt                      |
|       | Coagulation cascade and hemostasis laboratory tests        | 31:26  | Diaz video, PPt                      |
|       |  | 31.20  |                                      |
|       | Infectious mononucleosis and EBV                           | 50:00  | Rizkallah                            |

|      |   | Clinical skills Small Group  | 90:00   |                    |
|------|---|--|---------|--------------------|
|      | Fri   | HemeOnc 3: Platelet bleeding – Notes, Video  | 26:23   | OnlineMedEd        |
|      |   | HemeOnc 3: Factor bleeding – Notes, Video  | 21:03   | OnlineMedEd        |
|      |   | Coagulation and bleeding disorders   | 32:54   | Diaz video, PPt    |
|      |   | HemeOnc 3: Clotting pharmacology – Notes, Video  | 27:34   | OnlineMedEd        |
|      | Mon Discussion of hemostatic disorders case |  | 50:00   | Diaz,<br>Appelbaum |
|      |   | Anticoagulation and thrombolytic therapy   | 50:00   | Treadwell          |
| 4    | Tues  | REQUIRED QUIZ 3  | 50:00   | Individual only    |
| Week |   | Hematology course review; Q & A  | 50:00   | Faculty            |
| 3    | Wed   | REQUIRED Small Group: Critical clinical thinking in hematologic diseases (may be in Zoom breakout rooms) | 3 hours | Granville          |
|      | Thurs                                       | Independent study  |         |                    |
|      | Fri   | Exam   | 3 hours |                    |
|      | FII   | Time reserved to complete required course evaluation   | 30:00   |                    |

# **Grading System**

## **Assessment Methods**

#### Written assessments

Multiple choice and other question formats are used to assess both content knowledge and application skill (ability to solve problems, demonstration of clinical reasoning, interpretation of images and laboratory results, etc.). Questions may be drawn from material presented in any activity or assignment, from assigned readings and videos, and from CLC sessions.

Students must score  $\geq$  70.0% on all exam questions to pass the written examination component of the course. Students with a written exam average below 70.0% risk failing **Hematopoietic System**, and being referred to the Student Evaluation and Promotions Committee. A student who achieves an overall passing score ( $\geq$  70.0%) but has demonstrated a significant deficit in one or more content areas will be required to develop and complete a Performance Improvement Plan in consultation with the course directors. The purpose of the Plan is to assure the student has the requisite knowledge base to succeed in subsequent courses in the curriculum.

#### **NBME exams**

There will be a single end of course exam comprised of questions from the NBME (National Board of Medical Examiners) question bank. The questions on the customized NBME exam will be selected by course faculty as appropriate assessment of course learning objectives. **Exams are cumulative across the curriculum**, i.e., main concepts, content and skills from material presented in prior courses may be included in questions. Most written questions are presented in the context of a clinical scenario or problem.

#### Quizzes

Throughout the course there will be weekly faculty-written quizzes, delivered on Canvas. Students complete the quiz individually (**Individual Readiness Quiz** – 20 questions) during a required, proctored session in 1200. The end of course quiz average will contribute 3% to the overall course written assessment average. (e.g., exam average = 70.0%, quiz average =  $65.0\% \rightarrow$  course written assessment score = 69.9%). Quizzes provide a structure for students to "keep up" with the pace of the course and allow them to self-assess their learning needs (<u>EPO 3.1 Practice</u> <u>Based Learning and Improvement</u>).

# **Specifications Grading**

The FSU COM has adopted a pass/fail grading system which is used in the curriculum for the first and second years (See <u>Student Handbook</u>). To achieve a grade of Pass in BMS 6044 Hematologic System a student must earn a minimum of 148 points as described in the table below, including a minimum of 90 points from the assessment categories. The final grade of a student who accumulates 148 total points but has not achieved the minimum required number of points in any <u>non-assessment</u> category will be at the discretion of the course directors following discussion and any required remedial action.

| Category  | Criteria for points  | Points         | MINIMUM<br>Required | MAXIMUM<br>POSSIBLE |
|---|--|----------------|---------------------|---------------------|
| ASSESSMENTS (Minimum tota                       | al points required = 90)   |                |                     |                     |
| End of course written                           | Overall score of ≥ 75%   | 100 points     |                     |                     |
| assessment average –                            | Overall score 70-74.9%   | 90 points      | 90                  | 100                 |
| includes NBME exam 97% and guizzes (3%)         | Score < 70%  | 0 points       | 50                  | 100                 |
|   | TO   | TAL ASSESSMENT | 90                  | 100                 |
| NON-ASSESSMENT CATEGOR                          | RIES (Minimum total points required = 58)  |                |                     | 1                   |
| Assignments (on time submis                     | sion – see below: Professional Identity Formation  |                |                     |                     |
| PICO assignment                                 | Adequate effort and timely resubmission <u>if</u><br>requested   | RUBRIC         | 20                  | 21                  |
| Critical reading assignment                     | Evidence of effort and timely resubmission <b>if</b> requested   | RUBRIC         | 20                  | 26                  |
| Professional Identity Formatio                  | -  | <b></b>        |                     | I                   |
| On time arrival, attendance for entire session. | General professionalism: Includes proper attire,<br>on-time submission of assignments and<br>requested resubmissions, and behaviors not<br>covered below | -1 point/event |                     |                     |
| preparedness, and                               | CLC (x3): On time  | 1 point each   | 3                   | 3                   |
| professionalism are expected                    | CLC (x3): Evidence of preparation  | 1 point each   | 3                   | 3                   |
| for ALL required sessions.                      | Discussion rounds (x3): On time  | 1 point each   | 3                   | 3                   |
|   | CS Small groups (x3): On time  | 1 point each   | 3                   | 3                   |
| Includes, but not limited to, all               | CS Small groups (x3): Evidence of preparation  | 1 point each   | 3                   | 3                   |
| activities at right:                            | Morning small group  | 1 point each   | 1                   | 1                   |
|   | Required large groups (x2): On time and present for entire session   | 1 point each   | 2                   | 2                   |
|   | TOTAL  | NON-ASSESSMENT | 58                  | <b>65</b>           |
|   |  | TOTAL          | 148                 | 165                 |

For your convenience – here is a table of the due date and time for all REQUIRED large and small group sessions. MARK YOUR CALENDARS.

| Required LARGE and SMALL GROUPS and QUIZZES          | Date                  | Time          |
|--|-----------------------|---------------|
|  | Thursday, January 4   |               |
| Clinical reasoning small groups                      | Thursday, January 11  | 2:30 -3:50 PM |
|  | Thursday, January 18  |               |
|  | Tuesday, January 9    | 9-9:50 AM     |
| QUIZZES (NOTE DAY AND TIME)                          | Tuesday, January 16   | 10-10:50 AM   |
|  | Tuesday, January 23   |               |
| Hematopoeisis and peripheral blood cell morphology   | Tuesday, January 2    | 9-9:50 AM     |
| Critical analysis of literature                      | Friday, January 19    | 10-11:50      |
| Critical clinical thinking in hematological diseases | Wednesday, January 24 | 8-10:50       |

For your convenience – here is a table of the due date and time for Canvas assignment submissions above. MARK YOUR CALENDARS.

| Assignment                  | Date due (no later than) | Time due |
|-----------------------------|--------------------------|----------|
| PICO                        | Friday, January 12       | 5:00 PM  |
| Critical reading assignment | Thursday, January 18     | 5:00PM   |

Notes:

An end of course written assessment score between 70.0% and 74.9% (90 points) is considered a "marginal" pass. Students in this category are encouraged to consult the academic counselors in Student Affairs as well as the course faculty for advice on study and test-taking skills. An end of course assessment < 70.0% (0 points) will receive a grade of fail\* (see Grading Policy below), which will</li>

require remediation or repetition of the course, as proposed by the course directors and determined by decision of the Student Evaluation and Promotion Committee.

- 2. A student whose performance is <70.0% (below passing) on any individual exam during the course is required to
  - a. Contact the course directors within 24 hours and
  - b. Meet with the course directors. Students may be asked to complete a Performance Improvement Program, the purpose of which is to assist the student in developing the skills and habits necessary to succeed in the curriculum as well as to address specific performance deficits.
- 3. Students who do not achieve a score of 80% or higher on a CLC session
  - Will be required to review their performance by video and meet with an assigned faculty member to discuss their performance. Both the student and faculty will be provided with the boxplot to discuss the student's performance in that session. After meeting with the faculty member, the student will develop a process improvement plan and submit it to the CLC staff and Clinical Skills Course Director by the end of that week.
  - If a student scores <80% on a second CLC session, the student will be required to review their video but, will meet with the Clinical Skills Director instead of an assigned faculty member.
  - If a student scores <80% on a third CLC session, CLC performance will be rated as Unsatisfactory (see table below).
- 4. Punctuality (on time attendance), professional behavior, and satisfactory preparation and participation are required for all CLC sessions, Discussion Rounds, small groups, patient and panel presentations, and all other required activities as determined by the course directors and clinical skills director. Failure to meet these expectations may result in a designation of Unsatisfactory Professionalism and failure of the course.
  - A student who does not have a prior excused absence and is unable to attend or will be late <u>for a reason beyond their control</u>, must contact the Clinical Skills Course Director (for afternoon sessions <u>ramiz.kseri@med.fsu.edu</u>) or Course Director (for morning sessions <u>jose.diaz@med.fsu.edu</u>) as early as possible.
  - <u>Unexcused absence</u> from a required activity may require remediation as determined by the course directors. Multiple unexcused
    absences may result in a <u>Report of Concern for Unprofessional Behavior</u> and referral of the student to the Student Evaluation
    and Promotions Committee.
  - A repeat lapse in professionalism following a warning will be considered **Unsatisfactory Professionalism**, and will result in a course grade of IR or F (see <u>grading policy</u> below).
- 5. Demonstration of the attitudes and behaviors of Medical Professionalism in all aspects of the course, including adherence to the Honor Code in all course activities, adherence to safety protocols and behaviors, and observation of the dress code. Professionalism concerns may generate a <u>Report of Concern for Unprofessional Behavior</u> and may result in receiving a grade of fail in the course.
- 6. Satisfactory completion of all assignments, as determined by the course directors.
- 7. Timely completion of the post-course evaluation.

# Preclerkship course grading policy – Year 2

# Course written exam score:

- In courses with 2 exams, the course exam average is comprised of 40% midblock + 60% final.
- The course written assessment score = 97% exam average + 3% quiz average
- Pass =  $\geq$  70.0%; Written assessment scores are recorded to 1 decimal place and are NOT rounded.

#### Course grade: Pass, Fail, IR - All grades are determined by the course directors

- If the course written assessment score is ≥ 70.0% <u>and</u> all other aspects of the course have been satisfactorily completed as per the Specifications Grading table for the course, a grade of **Pass** will be recorded.
- If the course assessment score is < 70.0% <u>and</u> all other aspects of the course have been satisfactorily completed, a temporary grade of IR will be recorded.
- For an M2 course, a student may be allowed to attempt to remediate the temporary IR grade for <u>no more than 1 course</u> according to the <u>policy</u> below, <u>if recommended by the course director AND approved by the Student Evaluation and Promotion Committee</u> (SEPC). A passing performance on the remediation exam is ≥ 70.0%. The grade will convert to **Pass** or **Fail** based on the remediation exam score.
- If the student has IRs in 2 M2 courses, the student will be referred to the SEPC for consideration of either repeating the year or dismissal. If the SEPC recommends repeating the year, the IR grades will revert to Fail.

In courses that include an OSCE:

 If the OSCE score is < 80%, and the course written assessment score is Pass (see above) a temporary grade of IR will be recorded and the student may be allowed to remediate the clinical performance as determined by the Clinical Skills Directors. If the performance in the Preceptorship is Unsatisfactory (US), as determined by the Director of Pre-clerkship Preceptorships, <u>and</u> the course written assessment score is Pass, a temporary grade of IR will be recorded and the student may be allowed to remediate the deficit as determined by the Director of Pre-clerkship Preceptorships.

In all cases of Unsatisfactory Professionalism, the recorded grade will be <u>either</u> IR or Fail, depending on the nature of the Professionalism concern – irrespective of the grade in the other categories. (Professionalism includes timely completion of all assignments and responsiveness to communication from course directors.)

In any course in which the student's performance merits a grade of IR in 2 or more of the above categories (written assessment score, OSCE, Preceptorship, Professionalism), a grade of Fail may be awarded, and the student will be referred to the SEPC. (see table below)

| Written assessment | OSCE  | Preceptorship | Professionalism | Course Grade |
|--------------------|-------|---------------|-----------------|--------------|
| ≥ 70.0%            | ≥ 80% | S             | S               | Pass         |
|                    | < 80% | S             | S               | IR           |
|                    | ≥ 80% | US            | S               | IR           |
| ≥ 70.0%            | ≥ 80% | S             | US              | IR or Fail   |
| ≥ 70.0%            | ≥ 80% | US            | US              | IR or Fail   |
|                    | < 80% | S             | US              | IR or Fail   |
|                    | < 80% | US            | S               | IR or Fail   |
| < 70.0%            | ≥ 80% | S             | S               | IR           |
|                    | < 80% | S             | S               | IR or Fail   |
|                    | ≥ 80% | US            | S               | IR or Fail   |
| < 70.0%            | ≥ 80% | S             | US              | IR or Fail   |
|                    | ≥ 80% | US            | US              | Fail         |
|                    | < 80% | US            | US              | Fail         |

# Pre-clerkship course remediation policy – Year 2

A student who has completed all the assessments and activities of a course and has not achieved a passing score (see above), will be required to demonstrate competence through an assessment which is consistent with the original course objectives. Remediation activities, including final testing, may involve other students. For an M2 course:

- Students remediate by taking an open-ended, short-answer (essay) format exam developed by the course directors.
- Remediation occurs in the first 2-3 weeks of the Step 1 dedicated study block. Course remediation may be integrated with the student's
  use of UWorld blocks as part of the study plan.
- A student who scores <70.0% on the remediation assessment or does not adequately engage in the remediation process (as monitored by the course directors) will receive a grade of Fail for the course and be referred to the SEPC.
- If recommended by the course directors and approved by the SEPC, a student who has failed the remediation exam of an M2 course will
  remediate by retaking the full content of the course during a customized 3 week period and taking another customized NBME exam
  equivalent to the original course exam in scope and difficulty.

#### **Course Evaluation**

Students are required to complete and submit the post-course evaluation.

- Evaluations are delivered on-line through Qualtrics surveys comprised of radio-button questions and free response text.
- Students will receive an email directly from Qualtrics which allows tracking of completion of the survey INDEPENDENT from survey responses.
- Survey responses are both anonymous and confidential. Comments and ratings are shared in aggregate with course directors and the curriculum committee on a need to know basis. No responses are associated with student identity.
- Evaluations are made available on Friday prior to the week of the final exam and must be completed within 10 days. (Automatic reminders will come from Qualtrics only to those who have not submitted the survey.)
- Failure to complete the survey will be considered Unsatisfactory Professionalism and will result in a grade of IR or Fail (see table above).

Additional feedback is encouraged at all times on all components of the course and will assist the course directors in providing timely and continuous quality improvement. Feedback through email or meetings with faculty is always welcome.

# Americans with Disabilities Act

Candidates for the M.D. degree must be able to fully and promptly perform the essential functions in each of the following categories: Observation, Communication, Motor, Intellectual, and Behavioral/Social. However, it is recognized that degrees of ability vary widely between individuals. Individuals are encouraged to discuss their disabilities with the College of Medicine's <u>Director of Student Counseling Services</u> and the FSU Office of Accessibility Services to determine whether they might be eligible to receive accommodations needed in order to train and function effectively as a physician.

> The Office of Student Counseling Services Medical Science Research Building, 2301 Phone: (850) 645-8256

To receive academic accommodations, a student:

- 1) must register with and provide documentation to the Office of Accessibility Services (OAS);
- 2) must provide a letter from OAS to the instructor indicating the need for accommodation and what type; and
- should communicate with the instructor, as needed, to discuss recommended accommodations. A request for a meeting may be initiated by the student or the instructor.

# Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the:

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Office of Accessibility Services 874 Traditions Way 108 Student Services Building Florida State University Tallahassee, FL 32306-4167 Voice: (850) 644-9566 TDD: (850) 644-8504 oas@fsu.edu

#### Academic Honor Code

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and...[to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <a href="http://fda.fsu.edu/Academics/Academic-Honor-Policy">http://fda.fsu.edu/Academics/Academic-Honor-Policy</a>)

#### Attendance Policy

#### **University Attendance Policy:**

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

The College of Medicine has detailed attendance policies as they relate to each cohort and events that conflict with course schedules. See <u>FSU</u> <u>COM Student Handbook</u> for details of attendance policy, notice of absences and remediation.

Unexcused absence from a scheduled examination or quiz may result in a score of zero (0 %) being assigned for that assessment. Unexcused absence from an activity for which attendance is required (for example, Small Group session) may be considered as an issue of Professionalism. Any unexcused absence may require completion of the Performance Improvement Plan (see Grading section, above).

# **Clinical Learning Center (CLC) Specific Absence Policy**

#### CLC scheduled activities

Students with a legitimate reason to miss a scheduled session in the CLC must request an approved absence through Student Affairs through the <u>online link</u>. Students with approved absences will be allowed to reschedule or participate in a make-up session. **Unapproved absences may not be rescheduled or made up**. Repeated unapproved absences may result in a failing grade for the course and a **Report of Concern for Unprofessional Behavior**.

If you know you will be absent from a scheduled CLC session, please complete the absence approval request at least two weeks in advance. For absences that are approved at least two weeks in advance, a change in CLC schedule assignment will be arranged.

One method for addressing a planned and approved absence is to identify a classmate willing to exchange scheduled sessions with you. In this situation, <u>both</u> students (the student with the approved absence and the willing classmate) should send a request via email to the <u>CLC Team</u> at <u>least two weeks in advance</u>. Students will be notified re: approval of these requests. Please note: <u>Sending a request is NOT equivalent to</u> <u>receiving approval</u>.

Unplanned but excusable absences from CLC sessions are absences due to circumstances *beyond the student's control*. Examples include student illness and/or family death. When such a situation occurs, please contact the <u>CLC Team</u> **as soon as possible**, to inform her that you will not be present. Then, submit an absence request to Student Affairs through the <u>online link</u>. Student Affairs will classify the absence as excused or unexcused.

If the absence qualifies as an "excused" absence, the student must contact the <u>CLC Team</u> to develop a plan to make up the missed session. These sessions may require the presence of an SP and / or CLC faculty member. Any excused absence will not impact the student's grade.

Unexcused absences generally involve circumstances *within the student's control*. Examples of unexcused absences include the student who forgets about a scheduled CLC session, the student who skips the session to study, and/or any absence where an able student fails to contact Student Affairs and the <u>CLC Team</u> to inform them that the student will not be present for the session.

If the absence is unexcused, the clinical skills director will discuss the situation with the student. Any further unexcused absences will result in the notification of Student Affairs, a **Report of Concern for Unprofessional Behavior**, and referral of the student to the Student Evaluation and Promotions Committee. Students with unexcused absence(s) will still be responsible for the missed material in future OSCE's and written examinations.

# **Objective Structured Clinical Examination (OSCE)**

If a student knows he/she will not be able to participate in either a formative or summative OSCE, he/she should complete and submit the appropriate forms to Student Affairs, and, if within 24 hours of the time he/she is scheduled for the OSCE, contact the <u>CLC Team</u>. If the absence is excused by Student Affairs, the student will receive an "I" (incomplete) grade and be required to complete a make-up OSCE at a designated time after the course has ended.

Any excused absence-whether planned or unplanned-will not impact the student's grade.

Any absence that does not qualify as an excused absence per Student Affairs is an unexcused absence. These generally are due to circumstances within the student's control. Examples of unexcused absences include the student who forgets about an OSCE session, the student who skips an OSCE to study for an exam and/or any absence where an able student fails to follow the procedures above if they are not able to participate in the OSCE. An unexcused absence will result in failure of <u>both</u> the OSCE and the course in which it occurs.

#### Preceptorship

Planned preceptorship absences require students to complete the proper forms and obtain the required permissions prior to the absence. The student must submit a Request for Absence from Educational Activities through <u>Secure Apps</u>, including the date of the rescheduled session. In addition, the student must inform the <u>Preceptor Team</u> of the session to be missed and the rescheduled date.

Schedule changes or session remediation for planned preceptorship absences are negotiated in advance. It is the student's responsibility to arrange for a make-up session within one week of the missed session. The student will not incur a grading penalty for an approved absence, providing the session is completed by a schedule change or via remediation session.

Unplanned, but excused, preceptorship absences: In addition to requesting approval of an unplanned absence through <u>Secure Apps</u>, students are expected to contact the <u>Preceptor Team</u> and the preceptor as soon as possible, with the goal of alerting the preceptor in advance that the

student will not be coming. This must be completed as soon as possible to avoid impacting successful completion of the preceptorship component of the course.

Impact of excused absence on the student's grade: Absence with a preceptor must be rescheduled as quickly as possible and notification of the rescheduled date completed via the intranet survey. The student will not incur a grading penalty for an excused absence, provided it is rescheduled or remediated.

**Unexcused preceptorship absences:** In addition to absences not approved by Student Affairs, an absence will be considered to be unexcused if an able student fails to contact the preceptor directly and in advance of the expected time of arrival to inform him/her that the student will not be at the preceptor's site that day.

Impact of unexcused absence on the student's grade: The student may not be allowed to reschedule the missed session and could receive a grade of fail for the course

# **Professional Attire**

<u>Professional attire consists of clothes consistent with community norms for health care providers.</u> The COM CLC simulates the health care environment. Length and fit of all attire is to be in accordance with that acceptable for providers in a professional healthcare environment; oversized, undersized, tight-fitting, seductive, and/or revealing clothing is not acceptable.

## <u>Fit</u>

#### Make sure your clothing fits properly.

Tight fitting clothes may hinder your range of motion and prevent you from reaching, bending, twisting, kneeling or squatting. You need to ensure you're able to perform any physical exam or patient care activity without limitations. This also applies to loose fitting clothes as they also may interfere with patient care. When it comes to jewelry, wear a minimal amount. Jewelry can harbor microorganisms, contributing to the spread of disease. Large or loose jewelry can also get tangled or pulled on, possibly causing injuries to the patient or the provider.

#### Exposure and Safety

Make sure you're conscientious about which parts of your clothing, skin, or hair are exposed to the environment and visible to, and/or touching your patients and colleagues.

For example, open-toed shoes are prohibited by OSHA regulations in clinical settings and places like the anatomy lab where bodily fluids or sharp objects may contact one's body. This is also true for hair. If you have long hair, make sure it's pulled back and secured so it won't touch surfaces or the patients. Artificial nails are prohibited by CDC recommendation as they are more likely to harbor gram-negative pathogens, even after handwashing.

# <u>Modesty</u>

Make sure you're dressed in a way that maintains appropriate boundaries and makes you, the patient, and staff feel safe.

Aside from work-related exposure described above, clothing that reveals a lot of skin may make your patient uncomfortable for a variety of reasons (culture, religion, values, etc). Clothing that reveals arms, legs, midriff or chest areas may also pose a safety risk for the student in terms of harassment; some patients may erroneously misinterpret revealing clothing as an invitation to flirt or pursue the student.

#### **Presentation**

#### Remember: you are a representative of the FSU COM and the profession.

This means neatly groomed hair, including facial hair, ironed clothing AND white coat. Refrain from using cologne or hygiene products with strong fragrances as they may trigger medical conditions (e.g. asthma, migraines). Nails should be trimmed to not extend past finger's edge to avoid causing pain with palpation and other maneuvers.

# Suggested clothing

- Slacks or skirt and a collared shirt, blouse, or sweater.
- Length for dress/skirt edge should be no higher than 2" above the top of the knee-cap (patella) as garments move higher during examinations and sitting down.
- Ties may be either required or forbidden in some clinical situations.
- Footwear: dress or closed-toe shoes (no sandals, no open-toe footwear).
- Recommended flat or low heel height (no more than 2").
- Body art should be covered, and visible piercings should be removed while on duty.
- Ear piercings are allowed but are limited to two per ear. This is a common hospital policy that we are following to get you used to it.
- Neutral tones for nail polish.

# Unacceptable attire includes, but is not limited to, the following:

- Jeans of any style or color, denim material or "denim look" material
- Sheer or see-through fabrics
- Gym attire including shorts, leggings, yoga pants, sports bras, tank tops unless otherwise specified for a given activity (see below).

The established "norms" of certain clinical settings may modify these standards for professional attire, but any variations in professional attire must be approved <u>in advance</u> by the student's supervisor.

For curricular activities where guests or patients are present: Expectation is business casual with a white coat on.

On those occasions when students examine each other, you will be informed of the appropriate apparel for that session. Consult your supervisor to clarify expectations for student attire in any ambiguous or new situations.

# FSU COM Education Program Objectives

| 1   | PATIENT CARE: Provide patient care that is compassionate, appropriate, and effective for the   |
|-----|--|
|     | treatment of health problems and the promotion of health   |
| 1.1 | Perform the medical, diagnostic, and surgical procedures considered essential for the entering resident  |
|     | Gather, document, and effectively present essential and accurate information about patients and their  |
| 1.2 | condition through history-taking, physical examination, and the effective use of the electronic medical record   |
|     | for laboratory data, imaging and other tests   |
| 1.3 | Organize and prioritize tasks and responsibilities to provide care that is safe, effective, and efficient  |
| 1.4 | Interpret and effectively apply the results of basic diagnostic studies and tests, and understand the  |
|     | implications and urgency of results.   |
| 4 5 | Make informed decisions about diagnostic and therapeutic interventions based on up-to-date scientific  |
| 1.5 | evidence and clinical judgment, using shared decision making to incorporate patient information and  |
|     | preferences.<br>Develop and carry out patient management plans while working effectively as part of an interprofessional   |
| 1.6 | team.  |
|     | KNOWLEDGE FOR PRACTICE: Demonstrate knowledge of established and evolving biomedical,  |
| 2   | clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge   |
| -   | to patient care  |
| 2.1 | Demonstrate an investigatory and analytic approach to clinical situations  |
|     | Apply established and emerging bio-physical scientific principles fundamental to health care for patients and  |
| 2.2 | populations  |
|     | Apply established and emerging principles of clinical sciences to diagnostic and therapeutic decision-making,  |
| 2.3 | clinical problem-solving, and other aspects of evidence-based health care  |
| 0.4 | Apply principles of epidemiological sciences to the identification of health problems, risk factors, treatment   |
| 2.4 | strategies, resources, and disease prevention/health promotion efforts for patients and populations  |
|     | Apply principles of social-behavioral sciences to provision of patient care, including assessment of the impact  |
| 2.5 | of psychosocial-cultural influences on health, disease, care-seeking, care-compliance, barriers to and   |
|     | attitudes toward care  |
| 2.6 | Locate, appraise, and assimilate up-to date evidence to guide clinical decisions and inform clinical judgment  |
|     | PRACTICE-BASED LEARNING AND IMPROVEMENT: Demonstrate the ability to investigate and  |
| 3   | evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously   |
|     | improve patient care based on constant self-evaluation and life-long learning  |
| 3.1 | Continuously self-reflect, seek feedback, and identify strengths, deficiencies, and personal biases in one's   |
|     | knowledge and expertise to further improve performance<br>Set and pursue personal improvement goals by engaging in learning activities that address one's gaps and |
| 3.2 | limits in knowledge, skills, and attitudes   |
|     | Systematically incorporate feedback and implement changes in order to improve performance and patient  |
| 3.3 | care   |
|     | INTERPERSONAL AND COMMUNICATION SKILLS: Demonstrate interpersonal and communication  |
| 4   | skills that result in the effective exchange of information and collaboration with patients, their   |
|     | families, and health professionals   |
|     | Communicate effectively with patients, families, and the public, as appropriate, across a broad range of   |
| 4.1 | socioeconomic and cultural backgrounds   |
| 4.2 | Communicate effectively with colleagues, other health professionals, and health related agencies   |
| 4.3 | Participate in the education of patients, families, students, trainees, peers, and other health professionals  |
| 4.4 | Demonstrate sensitivity, honesty, and compassion in interpersonal interactions and in difficult conversations,   |
| 4.4 | such as those about death, end-of-life, adverse events, bad news, and disclosure of errors   |
| 4.5 | Maintain comprehensive, timely, and legible medical records  |
| 5   | PROFESSIONALISM: Demonstrate a commitment to carrying out professional responsibilities and an   |
| -5  | adherence to ethical principles and respect for codes of conduct   |
|     |  |

|                               | Demonstrate companyion integrity and respect for a diverse national population and for all population   |
|-------------------------------|---|
|                               | Demonstrate compassion, integrity, and respect for a diverse patient population and for all people, including   |
| 5.1                           | but not limited to diversity in sex, gender identity, age, culture, race, religion, disabilities, and sexual  |
|                               | orientation   |
| 5.2                           | Demonstrate respect for patient privacy and autonomy, placing patient needs above self-interest   |
|                               | Demonstrate a commitment to ethical principles pertaining to provision or withholding of care, confidentiality,   |
| 5.3                           | informed consent, and professional boundaries, including compliance with relevant laws, policies, and   |
| 0.0                           | regulations   |
| 5.4                           |   |
| 5.4                           | Demonstrate professional accountability   |
|                               | SYSTEMS-BASED PRACTICE: Demonstrate an awareness of and responsiveness to the larger context  |
| 6                             | and system of health care, as well as the ability to call effectively on other resources in the system to   |
|                               | provide optimal health care   |
| 6.1                           | Work effectively in and across various health care delivery settings and systems to coordinate patient care   |
| 0.0                           | Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based   |
| 6.2                           | care  |
| 6.3                           | Participate in advocacy for high quality, optimal and safe patient care systems   |
| 6.4                           | Participate in identifying system errors and potential systems solutions  |
| 0.4                           | INTERPROFESSIONAL COLLABORATION: Demonstrate the ability to engage in an interprofessional  |
| 7                             |   |
|                               | team in a manner that optimizes safe, effective patient- and population-centered care   |
| 7.1                           | Communicate and collaborate with other health professionals to establish and maintain a climate of mutual   |
|                               | respect, dignity, diversity, ethical integrity, and trust   |
| 7.2                           | Use one's own role and the roles of other health professionals in interprofessional teams in order to provide   |
| 1.2                           | patient- and population-centered care that is safe, timely, efficient, effective, and equitable   |
|                               | PERSONAL AND PROFESSIONAL DEVELOPMENT: Demonstrate the qualities required to sustain  |
| 8                             | lifelong personal and professional growth   |
|                               | Demonstrate a commitment to one's own physical and emotional health, recognizing its impact on  |
| 8.1                           | professional conduct, patience, empathy, and quality of patient care.   |
| 8.2                           | Manage balance between personal and professional responsibilities, seeking support when necessary   |
| 0.2                           |   |
|                               |   |
| 8.3                           | Demonstrate comfort with ambiguity as part of clinical health care and respond by utilizing appropriate   |
| 8.3                           | Demonstrate comfort with ambiguity as part of clinical health care and respond by utilizing appropriate resources to deal with uncertainty  |
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