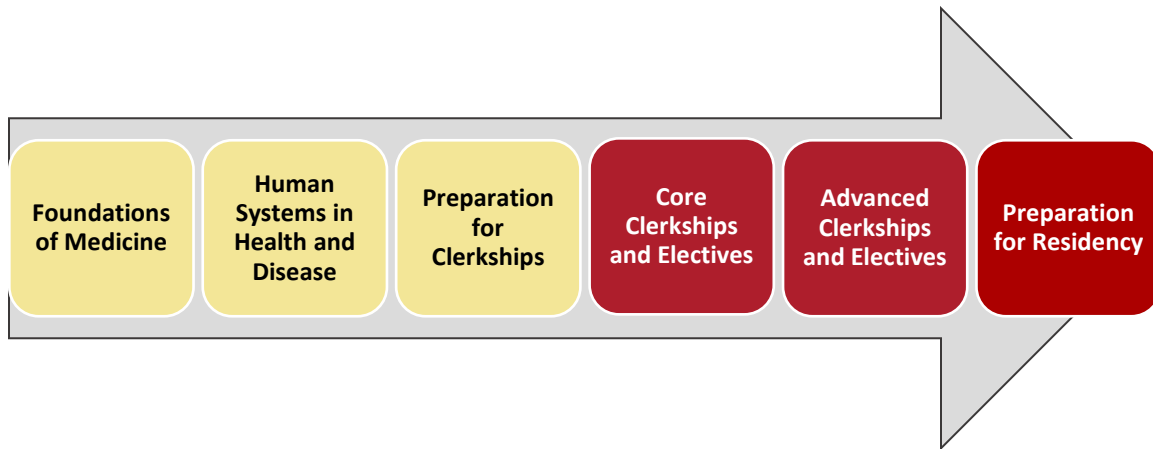


# MEDICINE



## Human Systems in Health and Disease BMS 6044 Hematologic System



*Except for changes that substantially affect implementation of the evaluation (grading) system, this syllabus is a guide for the course and is subject to change with advance notice*

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# Overview

## Course Goals

In the **Hematologic System** course students acquire a fundamental knowledge of the structure, function and diseases of the hematologic 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 hematologic system in health and disease. They will also develop a strong appreciation of how blood 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.

As indicated by the name, this a **Hematology** course – not to be confused with the Hematology-Oncology (HemeOnc) organization seen most often in Fellowships, some clinical electives, and as the system name in OnlineMedEd. This course covers only hematological malignancies. All other malignancies, such as the various carcinomas that comprise the overwhelming majority of cancers in humans were covered in previous system courses. General principles of cancer and anti-neoplastic drugs were covered in the first year Host Defense course.

## Course Objectives mapped to [Education Program Objectives \(EPOs\)](#)

	Course Objectives	EPOs	Means of Assessment
H1	Demonstrate effective communication with patients and their families from diverse backgrounds, including culturally and linguistically appropriate interviewing skills, appropriate use of an interpreter, and culturally appropriate verbal and non-verbal behaviors that promote building rapport and trust, and accurate and appropriate vocabulary and concepts about hematologic disorders and diseases.	4	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	CLC checklists
H3	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	Formative quizzes
H4	Demonstrate clinical skills and clinical reasoning necessary for diagnosis, evaluation, and management of hematologic disorders and diseases, including selection and interpretation of appropriate laboratory or imaging tests and development of a management plan.	1, 2	CLC checklists and notes; formative quizzes and NBME CAS exam
H5	Compare and contrast the structures and functions of the hematologic cells and organs (bone marrow, spleen, thymus and lymph nodes) and describe the mechanisms of the hematological disorders, including genetic and environmental factors, and anticipate the clinical effects expected to result from disease, injury, or environmental factors impacting the hematologic system	2	Formative quizzes and NBME CAS exam
H6	Identify, describe and distinguish tissue and cell types using photomicrographs and by virtual microscopy	2	Formative quizzes and NBME CAS exam

H7	Interpret clinical presentations, including symptoms, signs and/or laboratory findings based on an understanding of the structure and function of the hematopoietic and hematologic cells and organs, and communicate diagnostic information and reasoning, intervention options, and a suggested plan of care with truthfulness, sensitivity, and empathy	2, 4	Formative quizzes and NBME CAS exam
H8	Explain the physiological and psychosocial aspects of disease progression for the hematological disorders and describe their appropriate prevention and management, including pharmacological and non-pharmacological approaches.	2	Formative quizzes and NBME CAS exam
H9	Describe principles of pharmacologic and non-pharmacologic treatment and strategies for the prevention and management of hematologic disorders using principles of high value care, and demonstrate knowledge of the medications used in their treatment, including mechanism of action, kinetics, major adverse effects and drug interactions.	2	Formative quizzes and NBME CAS 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	Self-assessment
H 11	Demonstrate an understanding of biostatistics and epidemiology concepts and their application in health care, the ability to interpret and appraise the validity of study design and results in the medical literature, and the ability to apply these skills in a systematic approach to clinical problem solving.	2	Formative quizzes and NBME CAS exam; PICO assignment; Critical 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	PICO assignment
H13	Demonstrate effective communication with colleagues and other health professionals, and the ability to clearly and accurately summarize patient findings in verbal presentations and common written formats.	4	SOAP note
H14	Identify social determinants of health and discuss their relationship to health and wellness, including for underserved populations	2, 7	Formative quizzes and NBME CAS exam
H15	Engage in self-evaluation and reflection, including related to cultural, moral and ethical issues encountered in the care of patients, to identify biases, to develop self-awareness of knowledge, skill and emotional limitations, to set learning and improvement goals, and to engage in appropriate help-seeking behaviors	3	Self-assessment
H16	Demonstrate professional attitudes and behavior in all interactions with faculty, staff, peers, and patients, and in all activities, including: maintaining confidentiality for patients who participate in the course; demonstration of respect, empathy, compassion, responsiveness and concern regardless of the patient's problems or personal characteristics; integrity and adherence to ethical standards including informed consent; and completion of all required activities in a timely fashion	5	Observation by faculty, staff, peers, and standardized patients; 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).

## ***Self-directed Learning***

Time has been included on the pre-clerkship calendar for **self-directed learning**. While independent study time focuses on achieving the learning objectives of courses, completing assignments and activities, and preparing for assessments, self-directed learning (SDL) focuses on the **process of learning** and the **development of broader, deep learning skills and habits**. For SDL, students take the initiative to identify their learning needs, formulate goals, identify resources, select and implement learning strategies, and evaluate the outcomes. These are the skills of life-long-learning that are essential for all physicians, given the rapidly evolving nature of medical knowledge and advancements in health care.

Continual self-reflection on how you learn develops your critical thinking and problem-solving skills and prepares you to adapt to new information and new situations. Essential to that process is feedback. **Seek** and recognize feedback in its many forms – from faculty, advisors, mentors, and peers – and incorporate it in your reflection and in making adjustments to your learning strategies. The weekly [Required Formative Self-assessments](#) should be part of your SDL process – not just to identify knowledge gaps, but to reflect on the effectiveness of your learning strategies. Documentation of your SDL activities will be housed in your [FSU Career Portfolio](#). You may make as many additions to your Career Portfolio as you wish, but during each course there will be at least one SDL submission link on Canvas (*for instructions see [Submitting to a Career Portfolio Canvas assignment](#)*) through which you will receive feedback on your SDL. (see [Suggestions for SDL](#))

According to the LCME standards (Element 6.3): Self-directed learning involves ALL of the following:

- medical students' **self-assessment** of learning needs
- **independent** identification, analysis, and synthesis of relevant information
- **appraisal of the credibility** of information sources; and
- **feedback** on these skills from faculty and/or staff.

The Curriculum Committee requires that [PICO assignments](#) are a component of courses throughout the pre-clerkship curriculum. In these assignments you directly apply SDL skills to evidence-based, clinical decision making, related to a topic of personal interest.

## ***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 **Hematologic 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, February 13, 2026**. Your response to faculty feedback is due no later than **5:00 PM, Wednesday February 25, 2026**. 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 Wednesday February 18, 2026**.

### ***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.

### ***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 [at the end of this document](#) and can always be found on the course Canvas site (the University Learning Management System).



# Course Content

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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](#))***

[OnlineMedEd](#) – 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 each 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.



**Hematologic System: Detailed course schedule; *in person sessions* are HIGHLIGHTED**

Wk	Day	Content	Video/Class Time	Comments
Week 1	Mon	Introduction to the course	30:00	Zoom
		HemeOnc 1 Introduction - Notes, Video	24:49	OnlineMedEd
	Tues	HemeOnc 1 Hematopoiesis - Notes, Video	20:44	OnlineMedEd
		Hematopoiesis and peripheral blood cell morphology	23:19	Diaz video, PPt
		<b>Abnormal RBC exercise</b>		Assignments
		Discussion of abnormal RBC exercise	17:26	Diaz video, PPt
		CLC		
	Wed	HemeOnc 1: Laboratory interpretation Notes, Video	26:25	OnlineMedEd
		HemeOnc 2: Anemia: Hemoglobin Notes, Video	25:40	OnlineMedEd
		HemeOnc 2: Anemia: Approach to anemia Notes, Video	23:45	OnlineMedEd
		HemeOnc 2: Iron regulation – Notes, Video	16:32	OnlineMedEd
		HemeOnc 2: Microcytic anemia – Notes, Video	24:51	OnlineMedEd
		CBC and lab work-up of anemia	25:04	Diaz video, PPt
		Microcytic anemia: Iron deficiency	16:18	Diaz video, PPt
		Microcytic anemia: Thalassemias	18:10	Diaz video, PPt
		CLC		
	Thurs	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
		<b>Anemia case exercise</b>		PPt
		Macrocytic anemias	18:12	Diaz video, PPt
		Intrinsic hemolytic anemias	23:26	Diaz video, PPt
		Extrinsic hemolytic anemias	13:38	Diaz video, PPt
		Discussion of anemia cases exercise	12:02	Diaz video, PPt
		Clinical lecture	80:00	Auditorium
		Clinical skills small group	90:00	LCs
	Fri	HemeOnc 1: Laboratory interpretation – Notes, Video	26:25	OME review
		HemeOnc 2: Normocytic anemia – Notes, Video	33:57	OME review
		Aplastic anemias	16:20	Diaz video, PPt
		Sickle cell anemia and other hemoglobinopathies	18:26	Diaz video, PPt
		Laboratory and clinical evaluation of leukocytosis and leukopenia	27:41	Diaz video, PPt
Week 2	Mon	HemeOnc 2: Iron regulation – Notes, Video	16:32	OME review
		HemeOnc 2: Macrocytic anemia – Notes, Video <u>B12 and folate</u>	26:29	OME review
		Immunology: Taxonomy of lymphoid organs – Notes, Video	17:24	OME review
		Histology module: Lymphoid organs	Σ 56:20	Review from Host-Defense
		<b>Abnormal WBC exercise</b>		Assignments
		Discussion of the Abnormal WBC exercise	9:24	Diaz video
		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
		Iron, B12, and folic acid supplementation	50:00	Graham - 1200
	Tues	HemeOnc 4: Introduction to proliferation – Notes, Video	28:26	OnlineMedEd
		HemeOnc 4: Leukemia	26:47	OnlineMedEd

Week 3		Microbiology 5: Protozoa transmitted by insects, Malaria – Notes, Video	15:39	OME review; Begins at 10:30
		Histology of thymus: Laboratory and clinical evaluation of thymic mass	9:35	Diaz video, PPt
		Acute myeloid leukemia	27:39	Diaz video, PPt
		Myelodysplastic syndromes	11:40	Diaz video, PPt
		Malaria and infectious diseases of blood; antimalarial drugs	120:00	Rizkallah, Nemec - 1200
		CLC		
	Wed	HemeOnc 4: Myeloproliferative disorders – Notes, Video	20:14	OnlineMedEd
		Chronic myeloproliferative disorders	20:35	Diaz video, PPt
		<b>REQUIRED Critical analysis of literature</b>	80:00	Granville - 1200
		<b>Critical analysis of literature assignment</b>		Assignments
		CLC		
	Thurs	HemeOnc 4: Myeloproliferative disorders – Notes, Video	20:14	OME review
		HemeOnc 4: Lymphoma – Notes, Video	29:24	OnlineMedEd
		Lymphoid leukemias	28:40	Diaz video, PPt
		<b>Myeloid neoplasia case exercise</b>		Assignments
		Discussion of Myeloid neoplasia case exercise	6:45	Diaz video, PPt
		<b>PICO assignment</b>		Assignments
		Clinical skills LG	80:00	Auditorium
		Clinical skills SG	90:00	LCs
	Fri	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
		Hodgkin lymphoma and histiocytosis	25:15	Diaz video, PPt
Week 3	Mon	HemeOnc 3: Hemostasis – Notes, Video	26:09	OnlineMedEd
		HemeOnc 3: Thrombophilia – Notes, Video	23:39	OnlineMedEd
		HemeOnc 3: Clotting pharmacology – Notes, Video	27:34	OnlineMedEd
		Coagulation cascade and hemostasis laboratory tests	31:26	Diaz video, PPt
		<b>Anticoagulation and thrombolytic therapy</b>	50:00	Treadwell, 1200
	Tues	HemeOnc 3: Platelet bleeding – Notes, Video	26:23	OnlineMedEd
		HemeOnc 3: Factor bleeding – Notes, Video	21:03	OnlineMedEd
		Microbiology 3: DNA viruses – Notes, Video	EBV @ 24:32	OME review
		<b>Lymphoid neoplasia case exercise</b>		PPt
		Discussion of Lymphoid neoplasia case	11:10	Diaz video, PPt
		Coagulation and bleeding disorders	32:54	Diaz video, PPt
		<b>Infectious mononucleosis and EBV</b>	50:00	Rizkallah, 1200
		CLC		
	Wed	HemeOnc 1: Introduction to hematology <u>NOTES on transfusion</u>		OnlineMedEd NOTES
		Bone marrow transplantation	23:56	Diaz video, PPt
		Transfusion medicine	15:08	Diaz video, PPt
		CLC		
	Thurs	Independent study		
		Clinical skills Large Group	80:00	Auditorium
		Clinical skills Small Group	90:00	LCs
	Fri	Independent study		
Week 4	Mon	<b>REQUIRED Small Group: Critical clinical thinking in hematologic diseases (may be in Zoom breakout rooms)</b>	3 hours	Granville and M4s
	Tues	<b>Exam Part 1 Faculty written (30 questions)</b>	45 min	

Wed	Exam Part 2 – NBME (70 questions)	1.75 hours	
Thurs	Time reserved to complete required course evaluation	30:00	
Fri	Comprehensive Basic Science Exam (NBME)	5.25 hours	

## 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 **Hematologic 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

The end of course exam will be comprised of 2 parts. Part 1: 30 faculty written questions; Part 2 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., biostatistics, fundamental concepts in physiology, pharmacology, etc, 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.

#### Formative Self-assessments

Throughout the course there will be faculty-written quizzes, delivered on Canvas over weekends. These formative tools are “assessments for learning” that allow students to self-assess mastery of the material and their own learning needs and to assume responsibility for their own learning ([EPO 3 Practice Based Learning and Improvement](#)). Therefore, students should approach the quiz in the same way as any other assessment and should complete it without using any references (peers, notes, videos, websites, ChatGPT, etc.). **Completion of the formative self-assessments is optional; however, > 75% of students reported last year that weekly completion of the quiz was helpful in keeping them up to date in the course.**

### 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 [Student Handbook](#)). To achieve a grade of Pass in BMS 6044 **Hematologic System** a student must earn a **minimum of 147 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 147 total points but has not achieved the minimum required number of points in any non-assessment category will be at the discretion of the course directors following discussion and any required remedial action.

Category	Criteria for points	Points	MINIMUM REQUIRED	MAXIMUM POSSIBLE
<b>ASSESSMENTS (Minimum total points required = 90)</b>				
End of course written assessment NBME customized exam	Overall score of $\geq 75\%$	100 points	90	100
	Overall score 70-74.9%	90 points		
	Score $< 70\%$	0 points		
<b>TOTAL ASSESSMENT</b>			<b>90</b>	<b>100</b>
<b>NON-ASSESSMENT CATEGORIES (Minimum total points required = 57)</b>				
<b>Assignments (on time submission – see below: Professional Identity Formation)</b>				
PICO assignment	On time submission <b>Due 2/13 at 5:00 PM</b>			
	Adequate effort and timely resubmission <u>if requested</u>	RUBRIC	22	22
Critical reading assignment	On time submission <b>Due 2/18 at 5:00 PM</b>			

	Adequate effort and timely resubmission <u>if requested</u>	RUBRIC	20	26
<b>Professional Identity Formation</b>				
<b>On time arrival, attendance for entire session, preparedness, and professionalism are expected for ALL required sessions.</b>  Includes, but not limited to, all activities at right:	General professionalism: Includes proper attire, <b>on-time submission of assignments, self-assessments</b> , and requested resubmissions, and behaviors not covered below	<b>-1 point/event</b>		
	CLC (x3): On time	1 point each	3	3
	CLC (x3): Evidence of preparation	1 point each	3	3
	CS Small groups (x3): On time	1 point each	3	3
	CS Small groups (x3): Evidence of preparation	1 point each	3	3
	Morning small group: On time and present for entire session	1 point each	1	1
	Required large groups (x2): On time and present for entire session	1 point each	2	2
<b>TOTAL NON-ASSESSMENT</b>			<b>57</b>	<b>65</b>
<b>TOTAL</b>			<b>147</b>	<b>165</b>
<b>NOTE: Completion of the course evaluation is a requirement for passing the course. Due NO LATER THAN 5:00 PM March 1, 2026.</b>				

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	Date	Time
Clinical reasoning small groups	Thursday, February 5	2:30 -3:50 PM
	Thursday, February 12	
	Thursday, February 19	
Critical analysis of literature Small and Large group	Wednesday, February 11	10:00 - 11:50
Critical clinical thinking in hematological diseases	Monday, February 23	8:00 - 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
Weekly self-assessments	Sunday, February 8	11:59 PM
	Sunday, February 15	
	Sunday, February 22	
Critical reading assignment	Wednesday, February 18	5:00PM
PICO	Friday, February 13	5:00 PM
Post-course evaluation	Sunday, March 1	5:00 PM

Notes:

1. An end of course written assessment score between 70.0% and 74.9% (90 points) is considered a “marginal” pass. **An end of course assessment < 70.0% (0 points) will receive a grade of fail\*** (see [Grading Policy](#) below), which will 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 encouraged to consult the academic counselors in Student Affairs as well as the course faculty for advice on study and test-taking skills..
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 for a reason beyond their control, must contact the Clinical Skills Course Director (for afternoon sessions - [charles.fleischer@med.fsu.edu](mailto:charles.fleischer@med.fsu.edu)) or Course Director (for morning sessions - [jose.diaz@med.fsu.edu](mailto:jose.diaz@med.fsu.edu)) as early as possible.
  - Unexcused absence from a required activity may require remediation as determined by the course directors. Multiple unexcused absences may result in a [Report of Concern for Unprofessional Behavior](#) 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 [grading policy](#) 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 [Report of Concern for Unprofessional Behavior](#) 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. Failure to submit the post-course evaluation will result in a course grade of IR.

## Preclerkship course grading policy – Year 2

### Course written exam score: Hematologic System

- The Hematologic System course exam is comprised of 2 parts: Part 1: 30 faculty written questions, delivered on Canvas; Part 2: a 70 question customized NBME exam. The exam score is the percentage of total questions answered correctly (i.e., number of questions correct/100). **The exam average is recorded to 1 decimal place and is not rounded.** Pass =  $\geq 70.0\%$

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

- If the course written assessment score is  $\geq 70.0\%$  **and** 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  $< 70.0\%$  **and** 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 no more than one (1) course according to the [policy](#) below, if recommended by the course director AND approved by the Student Evaluation and Promotion Committee (SEPC). A passing performance on the remediation exam is  $\geq 70.0\%$  (no rounding). The grade will convert to **Pass** or **Fail** based on the remediation exam score.
- If the student has IRs in two (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 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.

In courses that include Preceptorship (M1 Spring, M2 Fall)

- If the performance in the Preceptorship is Unsatisfactory (US), as determined by the Director of Pre-clerkship Preceptorships, **and** 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 either **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
$\geq 70.0\%$	$\geq 80\%$	S	S	Pass
$\geq 70.0\%$	<b>&lt; 80%</b>	S	S	IR
	$\geq 80\%$	<b>US</b>	S	IR
	$\geq 80\%$	S	<b>US</b>	<b>IR or Fail</b>
	$\geq 80\%$	<b>US</b>	<b>US</b>	<b>IR or Fail</b>
	<b>&lt; 80%</b>	S	<b>US</b>	<b>IR or Fail</b>

	< 80%	US	S	IR or Fail
< 70.0%	≥ 80%	S	S	IR
< 70.0%	< 80%	S	S	IR or Fail
	≥ 80%	US	S	IR or Fail
	≥ 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 didactic 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 no later than Friday prior to the week of the final exam and must be completed within 10 days. (Automatic reminders (2) 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.



# Policies

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## ***Americans with Disabilities Act***

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course. 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 [Director of Student Counseling Services](#) 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) 645-6475

Students with disabilities needing academic accommodation should:

1. register with and provide documentation to the Office of Accessibility Services (OAS);
2. request a letter from Office of Accessibility Services to be sent to the instructor indicating the need for accommodation and what type; and
3. meet (in person, via phone, email, skype, zoom, etc.) with each instructor to whom a letter of accommodation was sent to review approved accommodations.

**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:

[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](mailto:oas@fsu.edu)

<https://dsst.fsu.edu/oas>

## ***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 <http://fda.fsu.edu/Academics/Academic-Honor-Policy>)

## ***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 the FSU COM [Student Handbook](#) for details of attendance policy, notice of absences and remediation. Students with a legitimate reason to miss a required activity must request an approved absence through [Secure Apps](#).

*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)*



## **Academic Success**

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Department of Student Support and Transitions to learn more.

### **Confidential campus resources:**

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

#### **Victim Advocate Program**

University Center A, Rm. 4100  
(850) 644-7161  
Available 24/7/365|Office Hours: M-F 8-5  
<https://dsst.fsu.edu/vap>

#### **Counseling and Psychological Services (CAPS)**

Florida State University's Counseling and Psychological Services (CAPS) primary mission is to address psychological needs and personal concerns, which may interfere with students' academic progress, social development, and emotional well-being. The following in-person and virtual (tele-mental health) services are available to all enrolled students residing in the state of Florida:

1. Individual therapy
2. Group therapy
3. Crisis Intervention
4. Psychoeducational and outreach programming
5. After hours crisis-hotline
6. Access to community providers for specialized treatment

Call 850-644-TALK (8255) for more information on how to initiate services.

Counseling and Psychological Services  
250 Askew Student Life Center  
942 Learning Way  
(850) 644-TALK (8255)  
Walk-in and Appointment Hours: M-F 8 am – 4 pm  
<https://counseling.fsu.edu/>

#### **University Health Services**

Services at UHS) are available to all enrolled students residing in Florida:

The mission of University Health Services (UHS) is to promote and improve the overall health and well-being of FSU students. UHS provides a coordinated continuum of care through prevention, intervention, and treatment. Services include general medical care, priority care, gynecological services, physicals, allergy injection clinic, immunizations, diagnostic imaging, physical therapy, and a medical response unit. The Center for Health Advocacy and Wellness (CHAW) assists students in their academic success through individual, group, and population-based health and wellness initiatives. Topics include wellness, alcohol and other drugs, hazing prevention, nutrition and body image, sexual health, and power based personal violence prevention. For more information, go to [uhs.fsu.edu](https://uhs.fsu.edu).

University Health Services  
Health and Wellness Center  
960 Learning Way  
Tallahassee, FL 32306  
Hours: M-F, 8 am – 4 pm  
(850) 644-6230  
<https://uhs.fsu.edu/>

# Clinical Learning Center (CLC) Specific Absence Policy

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## **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 [online link](#). 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, both students (the student with the approved absence and the willing classmate) should send a request via email to the [CLC Team](#) at least two weeks in advance. Students will be notified re: approval of these requests. Please note: **Sending a request is NOT equivalent to receiving approval.**

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 [CLC Team](#) **as soon as possible**, to inform her that you will not be present. Then, submit an absence request to Student Affairs through the [online link](#). Student Affairs will classify the absence as excused or unexcused.

If the absence qualifies as an “excused” absence, the student must contact the [CLC Team](#) 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 [CLC Team](#) 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 [CLC Team](#). 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 both 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 [Secure Apps](#), including the date of the rescheduled session. In addition, the student must inform the [Preceptor Team](#) 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 [Secure Apps](#), students are expected to contact the [Preceptor Team](#) 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

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Professional attire consists of clothes consistent with community norms for health care providers. 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.

### **Fit**

*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.

### **Modesty**

*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***

***accustomed 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 in advance 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

<b>EPO 1</b>	<p><b>PATIENT CARE: Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health</b></p> <p><i>Performs history and physical, demonstrates clinical reasoning and judgment, and incorporates guidance for health promotion and wellness.</i></p>
<b>EPO 2</b>	<p><b>KNOWLEDGE FOR PRACTICE: Demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences and the application of this knowledge to patient care</b></p> <p><i>Applies scientific and clinical knowledge to explain the normal and abnormal function of organ systems across the lifespan, mechanisms of disease, and the mechanisms and rationale of clinical diagnostic tests and therapeutic interventions. Applies knowledge of biostatistics and epidemiology to identify health problems and risk factors for patients and populations.</i></p>
<b>EPO 3</b>	<p><b>PRACTICE-BASED LEARNING AND IMPROVEMENT: Demonstrate reflective practice for life-long learning and improvement of patient care through continuous self-evaluation, evaluation of one's care of patients, and appraisal and assimilation scientific evidence</b></p> <p><i>Demonstrates reflective practice and commitment to personal growth and improvement. Utilizes information resources to locate and appraise evidence to guide clinical decisions.</i></p>
<b>EPO 4</b>	<p><b>INTERPERSONAL AND COMMUNICATION SKILLS: Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals</b></p> <p><i>Communicates effectively with patients, families, health professionals, health agencies, and the public across a wide range of socioeconomic and cultural backgrounds. Manages patient and family values, goals, and preferences. Demonstrates sensitivity, honesty, and compassion in interpersonal interactions, including in difficult situations. Delivers organized and accurate presentations.</i></p>
<b>EPO 5</b>	<p><b>PROFESSIONAL IDENTITY FORMATION: Demonstrate a commitment to personal and professional growth, and to carrying out professional responsibilities, adherence to ethical principles, and respect for codes of conduct</b></p> <p><i>Demonstrates professional behavior and respect for all. Acknowledges differences in values and beliefs, and demonstrates willingness to critically analyze one's own personal views. Demonstrates honesty and integrity in all activities. Performs tasks and responsibilities in a timely manner. Takes responsibility for lapses in professionalism. Participates in developmental coaching to develop values, mission, goals, and career exploration.</i></p>
<b>EPO 6</b>	<p><b>SYSTEMS-BASED PRACTICE: Demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care</b></p> <p><i>Participates in identifying system errors and potential systems solutions. Incorporates considerations of cost awareness and risk-benefit analysis in patient and/or population care. Demonstrates skill in team building and leadership. Identifies key elements for safe and effective transitions of care. Describes how components of a complex health care system are interrelated and how they impact patient care.</i></p>
<b>EPO 7</b>	<p><b>FSU COM MISSION: Demonstrate knowledge of the structural, systems, and personal contributors to the social determinants of health and health equity, especially in elder, rural, minority and underserved populations</b></p> <p><i>Identifies social determinants of health and how they create opportunities for and barriers to wellness for underserved populations. Identifies opportunities for physicians to partner with community resources to improve individual and population health. Explains the process of community health assessment to improve population health status. Applies the geriatric principles of care, and identifies the systems and social contributors to the well-being of older adult populations. Identifies the social, cultural, and systems factors associated with the health status of rural populations. Identifies factors contributing to racial and social justice in medicine. Demonstrates knowledge of the ways intersectionality, implicit and explicit bias relate to clinical decisions and quality care.</i></p>