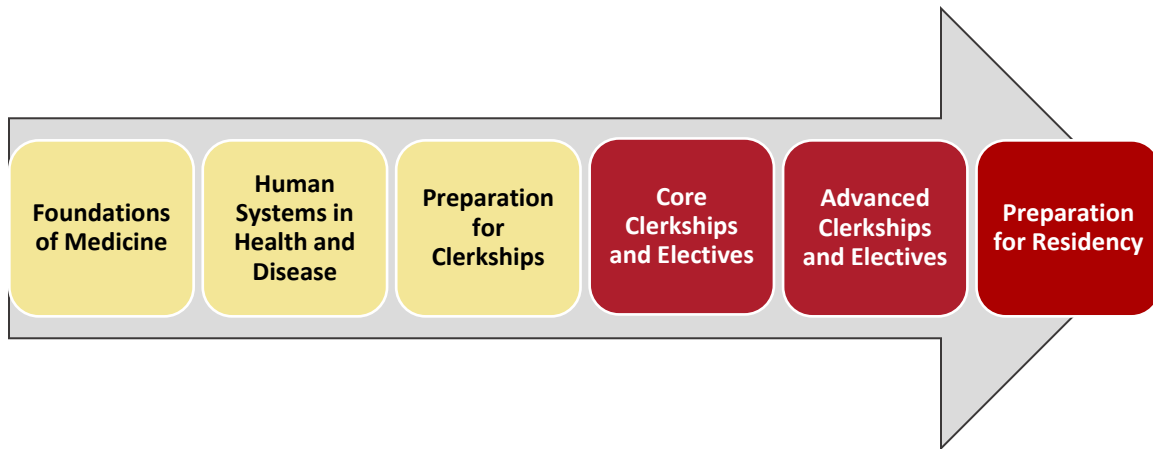


MEDICINE



Human Systems in Health and Disease

BMS 6044

Hematologic System

Florida State University
College of Medicine



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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 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 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.	2.2, 2.3, 4.1, 5.5	Observation by faculty, staff, and standardized patients
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, 1.3, 5.1, 5.5	Observation by faculty, staff, and standardized patients
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.	1.1, 1.2, 1.4, 2.3	SonoSim modules; 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, 1.4, 1.6, 2.3	Observation by faculty in CLC and small groups
H5	Compare and contrast the structures and functions of the hematopoietic 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	2.2, 2.3	Observation by faculty in small groups; Quizzes and Exam
H6	Identify, describe and distinguish tissue and cell types using photomicrographs and by virtual microscopy	2.2	Quizzes and Exam

H7	Interpret clinical presentations, including symptoms, signs and/or laboratory findings based on an understanding of the structure and function of the hematopoietic cells and organs, and communicate diagnostic information and reasoning, intervention options, and a suggested plan of care with truthfulness, sensitivity, and empathy	2.2, 2.3, 2.4, 4.6	Quizzes and Exam; Observation by faculty in small groups
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.	2.2, 2.3, 2.4, 2.5	Quizzes and 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.	2.2, 2.3, 2.4, 2.5	Quizzes and Exam; Observation by faculty in small groups
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	Observation by faculty; 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.	3.1, 3.2, 3.3, 3.6	Observation by faculty; participation in case- based learning activities; PICO assignment; critical reading template
H 12	Apply the principles and methods of Evidence-Based Medicine to acquire, appraise, and assimilate new clinical information to improve patient care	3.6, 3.7, 3.8	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.	4.2, 4.5, 7.3, 7.4	Observation by faculty; SOAP note
H14	Identify social determinants of health and discuss their relationship to health and wellness, including for underserved populations	2.4, 2.5, 9.1, 9.2	Quizzes and Exam; participation in small group discussions
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	3.1, 3.2, 4.7, 5.5, 8.1	Observation by faculty, staff and advisors; participation in small group discussion and case-based learning activities
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	1.7, 5.1, 5.3, 5.4, 5.5, 5.6	Observation by faculty, staff, peers, and standardized patients; tracking of required activities in 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.

Large Group Sessions (1200)

Formal lectures are limited in favor of interactive large group sessions. This learner-centered model uses the principles of active and “flipped” learning. Pre-class preparation by students allows large group time to be spent in active discussion and consolidation of learning that takes maximum advantage of faculty expertise in application exercises and other instruction methodologies. Pre-class preparation assignments prime students for learning with basic didactic material presented through a variety of materials including interactive modules, self-assessment exercises, video and PowerPoint presentations, and textbook and journal readings. Interactive large group sessions 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 block 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** block 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 13, 2023**. 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. Completion of the template by all students prior to the session assures readiness for meaningful in-class analysis and discussion. Submission of the completed template **due no later than 5:00 PM Thursday, January 19, 2023**.

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

Spanning all modules of this block, 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 block-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

- 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.
- 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.

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 $\geq 70\%$ on all exam questions to pass the written examination component of the course. Students with a written exam average below 70% risk failing **Hematopoietic System**, and being referred to the Student Evaluation and Promotions Committee. A student who achieves an overall passing score ($\geq 70\%$) 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. These formative tools are “assessments for learning” that allow students to self-assess mastery of the material and learning needs. **All quizzes are mandatory and must be completed prior to 8 AM on the following Monday without collaboration or consulting resources** (e.g., textbooks, peers, notes, websites, etc.). Quizzes are important opportunities for students to practice the self-assessment and responsibility for their own learning that are part of Professionalism and Practice Based Learning and Improvement. The results of the quizzes will be tracked as a measure of your progress and to help faculty connect students with resources that will help them succeed in the curriculum.

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 136 points as described in the table below**, including a **minimum of 95 points from the assessment categories**. The final grade of a student who accumulates 136 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
ASSESSMENTS (Minimum total points required = 95)				
End of course exam	Overall score of $\geq 75\%$	100 points	90	100
	Overall score 70-74.9%	90 points		
	Score < 70%	0 points		
Weekly quiz (total 3) (All quizzes must be completed – even if late -- to meet requirement)	On time <u>and</u> $\geq 70\%$	3 points each	5	9
	On time <u>and</u> between $\geq 65\%$ but <70%	2 points each		
	On time <u>and</u> between $\geq 50\%$ and < 65%	1 point each		
	Late (even if 100%)	0 points		
	NOT SUBMITTED or > 24 h late	- 2 points		
TOTAL ASSESSMENT			95	109
NON-ASSESSMENT CATEGORIES (Minimum total points required = 41)				
Assignments (on time submission – see below: Professional Identity Formation)				
PICO assignment	Adequate effort and timely resubmission <u>if requested</u>	RUBRIC	20	21
Critical reading template	Evidence of effort	2 points	2	2
Professional Identity Formation				
On time arrival, attendance for entire session, preparedness, and professionalism are expected for ALL required sessions. Includes, but not limited to, all activities at right:	General professionalism: Includes proper attire, on-time submission of assignments and requested resubmissions, and behaviors not covered below	-1 point/event		
	CLC (x3): On time	1 point each	3	3
	CLC (x3): Evidence of preparation	1 point each	3	3
	Discussion rounds (x3): On time	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	1 point each	1	1
	Required large groups (x3): On time and present for entire session	1 point each	3	3
TOTAL NON-ASSESSMENT			41	42
TOTAL			136	151

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, January 5	2:30 -3:50 PM

	Thursday, January 12	
	Thursday, January 19	
Stop the Bleed	Tuesday, January 3	9-11:50 AM
Hematopoiesis and peripheral blood cell morphology	Wednesday, January 4	9-9:50 AM
Critical analysis of literature	Friday, January 20	10-11:50
Critical clinical thinking in hematological diseases	Tuesday, 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 13	5:00 PM
Critical reading template	Thursday, January 19	5:00PM

Notes:

1. A final average $\geq 70\%$ on all examination questions. A grade of Fail or IR 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. Any quiz not completed by the Monday 8 AM deadline will earn 0 points. Any quiz submitted ≥ 24 h late will result in a 2 point deduction from the quiz category points.
3. A student who achieves an overall passing score ($\geq 70\%$) 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 block directors. The purpose of the Plan is to assure the student has the requisite knowledge base to succeed in subsequent courses in the curriculum.
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 - ramiz.kseri@med.fsu.edu) or Course Director (for morning sessions – 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 when taking unproctored, on-line quizzes, 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

Preclerkship course grading policy – Year 2

Course written exam score:

All quizzes are mandatory and must be completed without collaboration or consulting resources (e.g., textbooks, peers, notes, websites, etc.). Any quiz not completed within the designated time will receive a score of 0.

- The course **exam average** is comprised of 40% midblock + 60% final.
- Pass = $\geq 70\%$; Written assessment scores are recorded to 1 decimal place and are rounded (i.e., $\geq 69.5\%$ will be rounded to 70%).

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

- If the course written assessment score is $\geq 70\%$ **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 $< 70\%$ **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 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 2 M2 courses, the student will be referred to the SEPC for consideration of 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
$\geq 69.5\%$	$\geq 80\%$	S	S	Pass
$\geq 69.5\%$	$< 80\%$	S	S	IR
	$\geq 80\%$	US	S	IR
	$\geq 80\%$	S	US	IR or Fail
	$\geq 80\%$	US	US	IR or Fail
	$< 80\%$	S	US	IR or Fail
	$< 80\%$	US	S	IR or Fail
$< 69.5\%$	$\geq 80\%$	S	S	IR
$< 69.5\%$	$< 80\%$	S	S	IR or Fail
	$\geq 80\%$	US	S	IR or Fail
	$\geq 80\%$	S	US	IR or Fail
	$\geq 80\%$	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 expected to provide constructive feedback by **completion of the end of course evaluation survey**. Evaluations include both content and facilitation/teaching. Feedback is also encouraged at any time on all components of the course. Constructive feedback assists the course directors and Curriculum Committee in providing timely, continuous quality improvement.

Policies

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 [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) 645-8256

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
- 3) 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 <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 [FSU COM Student Handbook](#) 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 [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

Professional attire consists of clothes consistent with community norms for physicians. Length and fit of all attire is to be in accordance with that acceptable for physicians in a professional healthcare environment; oversized, undersized, tight-fitting, seductive, and/or revealing clothing is not acceptable.

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, strapless, low-necked or exposed chest clothing, midriff-baring clothes, backless clothing, spaghetti straps, cut-offs, tank tops, halter tops, crop tops, tube tops, sun dresses, crop pants, shorts, pedal pushers, hip hugger pants, stirrup pants, any item constructed mainly of spandex, sweat suits (sweat pants/sweat shirts), warm-up suits, overalls, hats, and any clothing that advertises.

Examples of professional attire in Tallahassee are: slacks or skirt and a collared shirt or blouse or sweater; conservative length dress (dress or skirt edge should rise no higher than 2" above the top of the knee-cap (patella) during all clinical care and training maneuvers including sit down patient-clinician conversations; dress or skirt should not be tight fitting)..

Ties may be either required or forbidden in some clinical situations.

Footwear may include dress or casual closed toe shoes (no sports shoes, no sandals, no open-toe footwear). Heels more than 3" in height are never appropriate in clinical settings.

Consult your supervisor to clarify expectations for student attire in any ambiguous or new situations.

Professional appearance: Long hair must be pulled back and secured. Facial hair must be neatly groomed. If possible, all tattoos should be covered by clothing. No visible body piercing except a single piercing in each ear. No large earrings or loose jewelry. Fingernails must be trimmed. If nail polish is worn, it should not be a distracting color. No strong perfume or other scented products. In compliance with OSHA regulations, closed-toed shoes are required in all clinical settings—including the CLC as well as the anatomy lab.

The established "norms" of certain clinical settings may modify these standards for professional attire, but any variations in professional attire must be approved by the student's supervisor. Consult your supervisor to clarify expectations for student attire in any ambiguous or new situations.

For curricular activities where guests or patients are not present: Unacceptable attire includes, but is not limited to, the following: sheer or see-through fabrics, strapless, low-necked or exposed chest clothing, midriff-baring clothes, backless clothing, spaghetti straps, cut-offs, tank tops, halter tops, crop tops, tube tops, or extremely short shorts..

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 all medical, diagnostic, and surgical procedures considered essential for the area of practice
1.2	Gather essential and accurate information about patients and their condition through history-taking, physical examination, and the use of laboratory data, imaging and other tests
1.3	Organize and prioritize responsibilities to provide care that is safe, effective, and efficient
1.4	Interpret laboratory data, imaging studies, and other tests required for the area of practice
1.5	Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment
1.6	Develop and carry out patient management plans
1.7	Counsel and educate patients and their families to empower them to participate in their care, showing consideration for their perspective throughout treatment
1.8	Provide appropriate referral of patients including ensuring continuity of care throughout transitions between providers or settings, and following up on patient progress and outcomes
1.9	Provide health care services to patients, families, and communities aimed at preventing health problems or maintaining health
1.10	Provide appropriate role modeling
2	KNOWLEDGE FOR PRACTICE: Demonstrate knowledge of established and evolving biomedical, 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
2.2	Apply established and emerging bio-physical scientific principles fundamental to health care for patients and populations
2.3	Apply established and emerging principles of clinical sciences to diagnostic and therapeutic decision-making, clinical problem-solving, and other aspects of evidence-based health care
2.4	Apply principles of epidemiological sciences to the identification of health problems, risk factors, treatment strategies, resources, and disease prevention/health promotion efforts for patients and populations
2.5	Apply principles of social-behavioral sciences to provision of patient care, including assessment of the impact of psychosocial-cultural influences on health, disease, care-seeking, care-compliance, barriers to and attitudes toward care
2.6	Contribute to the creation, dissemination, application, and translation of new health care knowledge and practices
3	PRACTICE-BASED LEARNING AND IMPROVEMENT: Demonstrate the ability to investigate and 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	Identify strengths, deficiencies, and limits in one's knowledge and expertise
3.2	Set learning and improvement goals
3.3	Identify and perform learning activities that address one's gaps in knowledge, skills or attitudes
3.4	Systematically analyze practice using quality improvement methods, and implement changes with the goal of practice improvement
3.5	Incorporate feedback into daily practice
3.6	Locate, appraise, and assimilate evidence from scientific studies related to patients' health problems
3.7	Use information technology to optimize learning
3.8	Participate in the education of patients, families, students, trainees, peers and other health professionals
3.9	Use information technology to obtain and utilize information about individual patients, populations of patients being served or communities from which patients are drawn to improve care
3.10	Continually identify, analyze, and implement new knowledge, guidelines, standards, technologies, products, or services that have been demonstrated to improve outcomes
4	Interpersonal and Communication Skills: Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals
4.1	Communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds
4.2	Communicate effectively with colleagues within one's profession or specialty, other health professionals, and health related agencies
4.3	Work effectively with others as a member or leader of a health care team or other professional group
4.4	Act in a consultative role to other health professionals

4.5	Maintain comprehensive, timely, and legible medical records
4.6	Demonstrate sensitivity, honesty, and compassion in difficult conversations about issues such as death, end-of-life issues, adverse events, bad news, disclosure of errors, and other sensitive topics
4.7	Demonstrate insight and understanding about emotions and human responses to emotions that allow one to develop and manage interpersonal interactions
5	PROFESSIONALISM: Demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles
5.1	Demonstrate compassion, integrity, and respect for others
5.2	Demonstrate responsiveness to patient needs that supersedes self-interest
5.3	Demonstrate respect for patient privacy and autonomy
5.4	Demonstrate accountability to patients, society and the profession
5.5	Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation
5.6	Demonstrate a commitment to ethical principles pertaining to provision or withholding of care, confidentiality, informed consent, and business practices, including compliance with relevant laws, policies, and regulations
6	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
6.1	Work effectively in various health care delivery settings and systems relevant to their clinical specialty
6.2	Coordinate patient care within the health care system relevant to their clinical specialty
6.3	Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based care
6.4	Advocate for quality patient care and optimal patient care systems
6.5	Participate in identifying system errors and implementing potential systems solutions
6.6	Work in interprofessional teams to enhance patient safety and improve patient care quality
7	INTERPROFESSIONAL COLLABORATION: Demonstrate the ability to engage in an interprofessional team in a manner that optimizes safe, effective patient- and population-centered care
7.1	Work in cooperation with other professionals to establish and maintain a climate of respect, dignity, diversity, ethical integrity, and trust in order to enhance team functioning and serve the needs of patients, families, and populations
7.2	Utilize and enhance one's own expertise by understanding and engaging the unique and diverse knowledge, skills, and abilities of other professionals to enhance team performance and maximize the quality of patient care
7.3	Exchange relevant information effectively with patients, families, communities, and other health professionals in a respectful, responsive, and responsible manner, considering varied perspectives and ensuring common understanding of, agreement with, and adherence to care decisions for optimal outcomes
7.4	Participate in and engage other members of interprofessional patient care teams in the establishment, development, leadership, and continuous enhancement of the team in order to provide care that is safe, timely, efficient, effective, and equitable
8	PERSONAL AND PROFESSIONAL DEVELOPMENT: Demonstrate the qualities required to sustain lifelong personal and professional growth
8.1	Develop the ability to use self-awareness of knowledge, skills and emotional limitations to engage in appropriate help-seeking behaviors
8.2	Demonstrate healthy coping mechanisms to respond to stress
8.3	Manage conflict between personal and professional responsibilities
8.4	Practice flexibility and maturity in adjusting to change with the capacity to alter behavior
8.5	Demonstrate trustworthiness that makes colleagues feel secure when one is responsible for the care of patients
8.6	Provide leadership skills that enhance team functioning, the learning environment, and/or the health care delivery system
8.7	Demonstrate self-confidence that puts patients, families, and members of the health care team at ease
8.8	Recognize that ambiguity is part of clinical health care and respond by utilizing appropriate resources in dealing with uncertainty
9	FSU COM MISSION: Demonstrate responsiveness to community needs – especially elder, rural, minority and underserved populations
9.1	Describe the social determinants of health, and identify how they create opportunities for and barriers to wellness for underserved populations.
9.2	Identify community resources and the ways physicians can partner with them to improve individual and population health and address social determinants of health.
9.3	Discuss the process and components of community health assessment.
9.4	Illustrate how community health assessment is used to identify the health needs and issues of a given population and inform decision making to improve population health status.

