IM 653
Oncology-Hematology Clerkship

CLERKSHIP ELECTIVE ROTATION SYLLABUS

OSTEOPATHIC MEDICAL SPECIALTIES
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At MSUCOM, we are constantly working to improve our curriculum and to meet new AOA accreditation guidelines. We need to meet the challenges of modern medicine that force us to innovate. While changes will generally be instituted at the beginning of the school year, changes may also be implemented semester to semester.

Please be mindful of the need to read your syllabi before beginning your rotations.
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INTRODUCTION AND OVERVIEW

This course is designed to provide the student with an opportunity to actively engage in patient-based, learning experiences under the guidance of a faculty member (preceptor) in collaboration, as appropriate, with residents and/or fellows.

ELECTIVE COURSE SCHEDULING

Preapproval
- Approvals from the facility where the rotation will occur and Clerkship Team (COM.Clerkship@msu.edu) is required for every selective/elective rotation.
- Confirmation of approval from the IOR is to be sent to COM.Clerkship@msu.edu for final clerkship approval and scheduling.

Required Prerequisites
- This course does not require any prerequisite courses.

Course Confirmation and Enrollment
- The student must be an active student at Michigan State University College of Osteopathic Medicine (MSUCOM).
- Student must complete five core rotations prior to any elective rotation.
- The student must receive MSUCOM confirmation and enrollment prior to beginning any elective rotation.
  - Once the student receives rotation acceptance from the host site, students must provide the elective application and host site approval to COM.Clerkship@msu.edu for MSUCOM confirmation and scheduling.
  - MSUCOM confirmation and enrollment is complete when the rotation is visible on the student’s schedule.
  - MSUCOM confirmation must occur at least 30 days in advance of the rotation.

ROTATION FORMAT

Rotations are typically two weeks, 3 credit hour, or four weeks, 6 credit hours in duration. Timeframes for each rotation are decided at least 30 days prior to the beginning of the rotation.

Rotation schedules are not to be submitted until the last Friday-Sunday of the rotation. You must document your actual schedule worked. You are required to document any time off for illness, boards, etc. that caused a deviation from the schedule you were provided. All rotation days must be accounted for.

The overall performance of course participants will be evaluated through customary assessment instruments normally employed by the department for core rotations, at the discretion of the instructor of record.
GOALS AND OBJECTIVES

GOALS

Course participants will:

1. Develop an appreciation of the practice of Hematology/Oncology as related to the specialty of the preceptor.
2. Assimilate what they learn and demonstrate their understanding of patient-care through ongoing interaction and dialogue with, as well as formative feedback from, the preceptor.
3. Demonstrate an understanding of the (seven) osteopathic core competencies (as applicable).

EDUCATIONAL GOALS

The hematology/oncology rotation is intended to provide the student with hands on experience in the evaluation and treatment of various hematological and oncological conditions.

The clinical experience will emphasize the diagnosis and management of acute and chronic hematology/oncology diseases and the management of the risk factors associated with each disease.

Learning objectives highlight the complete and accurate patient history and physical exam, indications for appropriate diagnostic studies and the understanding of first line therapy for common hematological/oncological conditions.

1. The clinical experience will emphasize the diagnosis and management of acute and chronic Hematology/Oncology diseases.
2. The clinical experience will emphasize evaluation of risk factors, and management of risk factors to prevent disease advancement if possible.
3. The clinical experience will include learning to perform a complete and accurate patient history and physical exam.
4. The clinical experience will include identification and indications for appropriate diagnostic studies.
5. The clinical experience will help the student identify the first line therapy for common Hematology/Oncology disorders.

OBJECTIVES

1. Medical Knowledge: The student is expected to be able to describe the clinical presentation, pathophysiology and management of the following hematologic/oncologic issues:

   Lab evaluation

   1. Describe the role of the peripheral smear in the diagnosis of various diseases
   2. Identify and list the significance of the various red blood cell abnormalities including microcytosis, macrocytosis, schistocytes, target cells, Howell-Jolly bodies etc.
3. Identify and list the significance of the various white blood cell abnormalities including hypersegmented neutrophils, blast cells, Auer rods, hairy cells, etc.

4. Be familiar with the significance and indications of a bone marrow biopsy

White blood cell disorders

1. Define and identify causes of the following white blood cell disorders:
   o Leukopenia
   o Neutropenia
   o Lymphopenia
   o Leukocytosis

Red blood cell disorders

1. Understand the definition of anemia for both men and women
   o Be familiar with the clinical symptoms and signs of anemia
   o Discuss the diagnostic approach to anemia with regard to the complete blood count, MCV, RDW, reticulocyte count, and peripheral smear findings
   o Understand the approach, pathophysiology, and diagnosis of anemias associated with decreased production
     ▪ Microcytic anemia
       • Iron deficiency anemia
       • Sideroblastic anemia
       • Anemia of chronic disease
       • Thalassemias
       • Lead poisoning
     ▪ Normocytic anemias
       • Anemia of chronic disease
       • Anemia of chronic renal failure
       • Endocrine disorders
     ▪ Macrocytic anemia
       • Vitamin B12 deficiency
       • Folate deficiency
       • Drug induced disorders

2. Understand the approach, pathophysiology and diagnosis of anemias associated with increased destruction
   o Hemolytic anemias
     ▪ Sickle Cell anemia
     ▪ Glucose-6-Phosphate Dehydrogenase deficiency
     ▪ Hereditary spherocytosis
     ▪ Acquired immune hemolytic anemia
       • Warm antibody
       • Cold antibody
     ▪ Acquired nonimmune hemolytic anemia
       • Microangiopathic hemolytic anemia
         - Thrombotic thrombocytopenic purpura (TTP)
         - Disseminated intravascular coagulation (DIC)
         - Hemolytic-uremic syndrome
         - Eclampsia
         - Malignant hypertension
• Microangiopathic hemolytic anemia
  - Prosthetic valves
  - Severe aortic stenosis
  ▪ Physical and chemical trauma
  ▪ Infection
  ▪ Hypersplenism
  ▪ Paroxysmal nocturnal hemoglobinuria

3. Understand the approach, pathophysiology and diagnosis of **anemias associated with decreased production of red blood cells**
   o Malignancies and other marrow infiltrative diseases
     ▪ Leukemia and lymphoma
     ▪ Plasma cell disorders
   o Stem cell disorders
     ▪ Myelofibrosis
     ▪ Aplastic anemia
     ▪ Pure red cell aplasia
     ▪ Myelodysplasia

**Platelet disorders**

1. **Thrombocytopenia**
   o Understand the definition of thrombocytopenia
   o Discuss the differential diagnosis of thrombocytopenia with regard to decreased production and increased destruction
   o Review TTP and HUS
   o Review DIC
   o Discuss the etiologies and pathophysiological mechanism of **Heparin induced thrombocytopenia (HIT)**
     ▪ Distinguish between HIT I and HIT II
     ▪ Discuss treatment goals of HIT
   o Discuss the pathophysiology, presentation and management of **idiopathic thrombocytopenic purpura**

2. **Thrombocytosis**
   o Understand the etiology, diagnostic criteria and treatment of **Essential Thrombocytosis**
   o Understand causes of reactive thrombocytosis

**Deep vein thrombosis and pulmonary embolism**

1. Be familiar with the risk factors associated with DVT and PE
2. Understand the etiology of DVT and PE
3. Review the clinical symptoms and signs of DVT/PE
4. Understand the diagnostic approach to DVT/PE
5. Be familiar with the management of DVT/PE
6. Review the importance of prevention of DVT/PE

**Thrombophilia**

1. Understand the clinical and laboratory manifestations of the various causes of thrombophilia
   o **Activated Protein C Resistance /Factor V Leiden**
   o **Prothrombin G20210A**
o Antithrombin deficiency
o Protein C and S deficiency
2. Be familiar with the work up of the hypercoagulable state
3. Discuss the clinical and laboratory features of Antiphospholipid syndrome

Coagulopathy
1. Discuss the presentation, diagnosis and treatment of Hemophilia A
2. Discuss the presentation, diagnosis and treatment of Hemophilia B
3. Discuss the presentation, diagnosis and treatment of Von Willebrand Disease

Pancytopenia
1. Understand the etiology and classification of pancytopenia
2. Review the various causes of pancytopenia
3. Be familiar with the proper workup for pancytopenia

Bone marrow failure
1. Define Myelodysplasia
2. Review the epidemiology and pathogenesis of myelodysplasia
3. Briefly discuss the classifications of myelodysplasia

Aplastic anemia
1. Define aplastic anemia
2. Review the causes of aplastic anemia
3. Understand the pathogenesis of acquired aplastic anemia
4. Discuss the diagnosis and treatment of aplastic anemia

Parosysmal nocturnal hemoglobinuria (PNH)
1. Explain the pathogenesis and presentation of PNH
2. Discuss the diagnosis and treatment of PNH

Myeloproliferative disorders
1. Be familiar with the background, epidemiology, and clinical presentation of Polycythemia Vera (PV)
2. Discuss the diagnostic criteria for PV
3. Review the treatment options for PV
4. Define and review the epidemiology of Essential Thrombocytosis (ET)
5. Discuss the diagnostic criteria of ET
6. Discuss the treatment options of ET
Transfusions

1. Discuss the indications, risks and benefits of the following transfusions
   o Red cell transfusions
   o Platelet transfusions
   o Plasma products

Sickle cell disease (scd)

1. Review the pathophysiology of SCD
2. Discuss the clinical symptoms and signs of SCD
3. Discuss the treatment options of SCD
4. Review the important acute complications of SCD

Plasma cell disorders

1. Discuss the pathophysiology and clinical presentation of Multiple Myeloma (MM)
2. Review the diagnosis and proper work up of MM
3. Briefly review the treatment options of MM
4. Define Monoclonal Gammopathy of Undetermined Significance (MGUS)
5. Discuss the natural history, clinical presentation and management of MGUS
6. Be familiar with the diagnosis, presentation and treatment of Waldenstrom Macroglobulinemia
7. Discuss the causes, presentation and treatment of amyloidosis

Breast cancer

1. Review the risk factors associated with breast cancer
2. Discuss the recommended screening modalities for the early detection of breast cancer
3. Explain the various pathologic subtypes of breast cancer
   o Types of Adenocarcinoma
   o Ductal carcinoma in situ (DCIS)
   o Lobular carcinoma in situ (LCIS)
   o Paget disease of the nipple
4. Review the diagnosis and work up of a breast mass
5. Discuss the prognosis of breast cancer with regard to estrogen, progesterone receptors and Her-2 overexpression
6. Briefly review treatment options for the various forms of breast cancer

Lung cancer

1. Discuss the risk factors associated with lung cancer
2. Review the epidemiology of lung cancer
3. Discuss the various classifications, presentation and management of Non-Small-Cell Lung Cancer
4. Review the presentation, associated syndromes and management of Small-Cell Lung Cancer

Colorectal cancer

1. Discuss the epidemiology and pathophysiology of colorectal cancer
2. List the risk factors associated with colorectal cancer
3. Review the recommendations regarding screening for colorectal cancer
4. Briefly discuss the work-up, diagnosis and treatment of colorectal cancer

Gastrointestinal cancers

1. Discuss the presentation, risk factors, diagnosis and treatment of the following GI malignancies:
   o Esophageal cancer
   o Gastric cancer
   o Pancreatic cancer
   o Hepatocellular cancer
   o Gallbladder cancer
   o Cholangiocarcinoma

Malignant melanoma

1. Review the incidence, epidemiology and risk factors associated with melanoma
2. Discuss the clinical presentation, diagnosis and treatment options for melanoma

Prostate cancer

1. Review the epidemiology and risk factors associated with prostate cancer
2. Discuss the current recommendations regarding screening for prostate cancer
3. Explain the presentation, diagnosis, prognosis and treatment options of prostate cancer

Leukemia

1. Differentiate the various leukemias with regard to presentation, cytogenetics, diagnostic workup, treatment options and prognosis
   o Acute Myelogenous Leukemia
   o Chronic Myelogenous Leukemia
   o Chronic Lymphocytic Leukemia
   o Acute Lymphocytic Leukemia
   o Hairy Cell Leukemia

Lymphoma

1. Differentiate **Hodgkin lymphoma** and **Non Hodgkin lymphoma** with regard to epidemiology, pathophysiology, presentation, diagnosis, staging, and treatment

Additional malignacies

1. Discuss the epidemiology, pathophysiology, risk factors, screening, diagnosis, treatment and prognosis for the following cancers
   o Head and Neck Cancers
   o Sarcomas
   o Endocrine malignancies
   o Renal Cell Cancer
   o Bladder Cancer
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- Testicular Cancer
- Gynecological Cancers
- Intracranial Cancers

Oncological emergencies

1. Discuss the definition, pathophysiology, presentation, diagnosis and treatment of the following emergencies
   - Malignant pericardial effusion and tamponade
   - Superior Vena Cava Syndrome
   - Acute Tumor Lysis Syndrome
   - Hypercalcemia of Malignancy
   - Syndrome of Inappropriate Antidiuretic Hormone and Hyponatremia
   - Neutropenic Fever
   - Epidural Spinal Cord Compression
   - Pathologic Fractures

COMPETENCIES

1. The student should complete a thorough medical history including details of current symptoms, previous hematologic issues and management efforts, and risk factors that could impact on the diagnosis or management of their current problem.

2. Perform a complete physical exam with appropriate emphasis on the hematopoietic system exam.

3. Interpret common diagnostic tests utilized in the evaluation of the patient with a hematologic or oncologic disorder.

4. Interpret laboratory test with emphasis on the CBC, iron studies, Vitamin B12 and Folate disorders

5. Socioeconomic: The student will:
   - Appreciate the psychosocial issues that potentially impact the patient’s hematologic problems (professionalism and sensitivity to disability issues).

6. Assessment of Clinical Competencies:

   - Patient Care: The student will be able to complete an accurate history and physical exam and accurately document the findings, write daily notes to accurately and concisely project the status of the patient’s condition, and recognize unstable patients in need of urgent evaluation and management.
   - Medical Knowledge: The student can demonstrate knowledge of the criteria for diagnosis of common clinical problems, know the first line therapies for common clinical problems, and demonstrate a knowledge of the interpretation of diagnostic tests.
   - Communication Skills: The student can effectively present the clinical evaluation of a new patient and/or the clinical progress of a continuing patient, and communicate effectively with patients, clinical support staff, and supervising residents and attending physicians.
   - Professionalism: The student will demonstrate respect for patients, families, co-workers, and work effectively with nurse coordinators, social services, and ancillary staff.
   - Practice Based Learning: The student will be able to identify and discuss appropriate, evidence based approaches to assist in the diagnosis and management of clinical problems encountered in their patients.
   - Systems Based Practice: The student will be able to incorporate a team approach in the management of complicated patients.
   - Osteopathic Principles and Practices: The student should be able to integrate osteopathic principles and treatments in the management of the hematologic patient.
Teaching Methods: The student is expected to function as a viable member of the supervising physician health care team. Assigned student responsibilities can include: supervised first patient contact in the office or clinic, the completion of admission history and physicals, the completion of pre-rounding progress notes on assigned patients, participation in conducting and the interpretation of diagnostic testing and clinical management.

Participation in Clinical Conferences and/or Structured Educational Programs: The student is expected to participate in clinical conferences and educational programs appropriate for the clerkship course including those generally associated with residency educational programs.

Evaluation: The student is encouraged to solicit feedback related to his/her clinical performance on a daily basis. The student should receive formative performance evaluations at the mid-point and end of the rotation that outlines faculty perceived strengths and weaknesses related to the student’s performance that includes recommendations for strengthening his/her performance as warranted.

COLLEGE PROGRAM OBJECTIVES

In addition to the above course-specific goals and learning objectives, this clerkship rotation also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website (https://com.msu.edu/) and in the Student Handbook.

REFERENCES

REQUIRED STUDY RESOURCES

Desire 2 Learn (D2L)

SUGGESTED STUDY RESOURCES

Recommended Texts

Review of the Hematology Modules from the Heme course OST 578 course pack will be of value to the student. There is no assigned textbook. Reading assignments are under the purview of the preceptor.
The student who fails to turn in required paperwork, who has a verifiable reason why they failed to do so, will be allowed a 2-week grace period or more depending on the circumstances, Failure to meet this two week deadline will result in an N grade.

**ROTATION EVALUATIONS**

- **Attending Evaluation of Student**
  Students are responsible for assuring that his/her clinical supervisor receives the appropriate evaluation form. Forms can be accessed via the “Attending Evaluation” link in the student’s Kobiljak online Clerkship schedule.
Students should actively seek feedback on his/her performance throughout the course of the clinical rotation. Students should also sit down and discuss the formal evaluation with the clinical supervisor.

Students should keep a copy of the evaluation and leave the original with the Medical Education Office at the clinical training site where that office will review, sign, and forward the completed form to the COM Clerkship Team. Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” and will be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct or to the Committee on Student Evaluation (COSE).

Grades are held until all rotation requirements, including evaluation forms, are received. Be sure you are using the correct form.

**Student Evaluation of Clerkship Rotation**

Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing their online evaluation system at:

http://hit-filemakerwb.hc.msu.edu/Clerkship/login_student.html

**Unsatisfactory Clinical Performance**

The Instructor of Record and/or the Assistant Dean for Clerkship Education will review/investigate a student’s performance on a rotation when a concern is raised by the supervisor(s), and when the Attending Evaluation of Clerkship Student contains any below expectation marks within the professionalism area, any unsatisfactory written comments, or a total of two or more below average marks on the evaluation.

Professionalism concerns, as well as accolades, will also be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct.

**CORRECTIVE ACTION PROCESS**

There is no Corrective Action offered on this course. As determined by the Instructor of Record, the student will receive an N grade for the course if all assignments are not completed successfully by the last day of rotation at 11:59pm (with the exception of the Attending Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

**BASE HOSPITAL REQUIREMENTS**

Students are responsible for completing all additional requirements set by the hospital/clinical site in which the student is completing the rotation. Students are not responsible for reporting results of requirements outside the ones listed above to the college.
STUDENT RESPONSIBILITIES AND EXPECTATIONS

Course participants will meet the preceptor on the first day of the rotation at a predetermined location to be oriented to rotation hours, location(s), and expected duties and responsibilities while on-service.

- The student will meet the following clinical responsibilities during this rotation:
  - Students are expected to function collaboratively on health care teams that include health professionals from other disciplines in the provision of quality, patient-centered care.

- The student will meet the following academic responsibilities during this rotation:
  - Students are expected to identify, access, interpret and apply medical evidence contained in the scientific literature related to patients health problems.
  - Students are expected to: assess their personal learning needs specific to this clinical rotation, engage in deliberate, independent learning activities to address their gaps in knowledge, skills or attitudes; and solicit feedback and use it on a daily basis to continuously improve their clinical practice.
  - It is the students responsibility to notify the Clerkship Office (com.clerkship@msu.edu) immediately if they are placed on quarantine or contract COVID.

MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES

The following are standard MSUCOM policies across all Clerkship rotations.

ATTENDANCE POLICY

OVERVIEW

Michigan State University College of Osteopathic Medicine (MSUCOM) requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge that are necessary for successful program completion. Students are expected to take minimal time off outside of vacations already appearing in schedules and should only request time off in the rare events and circumstances outlined below.

Specific courses may have additional absence requirements from this general clerkship policy, and it is the student’s responsibility to adhere to these requirements according to the respective course syllabus.

GENERAL POLICY

- All absences from rotations must be excused absences obtained by completing the Clerkship Program Excused Absence Request Form.
  - Appropriate signatures must be obtained from both the attending physician and the student coordinator at the rotation site.
  - MSUCOM Assistant Dean for Clerkship Education must approve absences for prolonged illnesses, bereavement, research presentations/conferences, or absences exceeding the maximum time off any one rotation.
  - Once appropriate approval signatures are obtained, forms should be maintained for your records in the event they are requested or required at a later date.

- Unexcused absences are absences taken without the proper completion of the Clerkship Program Excused Absence Request Form, or absences outside of those listed in the Clerkship Attendance Policy. Unexcused absences are considered unprofessional and will result in a report to the Spartan Community Clearing House and/or the MSUCOM Committee on Student Evaluation (COSE).
<table>
<thead>
<tr>
<th>Length of rotation</th>
<th>Maximum number of days off</th>
<th>Exception for residency interviews from October to January in Year 4 only</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>2 days</td>
<td>Should an absence exceed these limits, the student is responsible for requesting additional days from the Assistant Dean for Clerkship Education via email (<a href="mailto:com.clerkship@msu.edu">com.clerkship@msu.edu</a>) prior to the absence.</td>
</tr>
<tr>
<td>2 weeks</td>
<td>0 days</td>
<td>A fourth-year student may be absent a total of 4 days on any 4-week rotation, or 2 days on any 2-week rotation during the months of October-January during Year 4 for interview purposes only. If interview absences exceed these totals, the student must request additional days off from the MSUCOM Instructor of Record (IOR) for the course/rotation by submitting a Clerkship Program Excused Absence Request Form to the Course Assistant (CA). Contact information for the IOR and CA are found on the first page of the respective MSUCOM course syllabus.</td>
</tr>
<tr>
<td>Absence Type</td>
<td>Qualifications</td>
<td>Maximum number of days off</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>Personal Day</td>
<td>Illness Medical/Dental appointments Wedding, family graduations (additional reasons must be discussed with the Asst Dean for Clerkship Education prior to request)</td>
<td>5 total days per year (individual events must comply with the max of 2 days off any 4-week rotation)</td>
</tr>
<tr>
<td>Jury Duty</td>
<td>Court documentation must accompany the Clerkship Program Absence Request Form.</td>
<td>N/A</td>
</tr>
<tr>
<td>Hospital-organized community events</td>
<td>Example: Special Olympic Physicals</td>
<td>N/A</td>
</tr>
<tr>
<td>Examination</td>
<td>COMLEX USA Level 2 CE/USMLE Step 2 CK/Canadian MCCEE</td>
<td>1 day</td>
</tr>
<tr>
<td>Conference/Research Presentation</td>
<td>Research presentation on core rotation</td>
<td>Travel and presentation time only</td>
</tr>
<tr>
<td>Conference or research presentation while on an elective rotation</td>
<td>Conference or research presentation while on an elective rotation</td>
<td>3 days on a 4-week elective rotation</td>
</tr>
<tr>
<td>Prolonged Illness, Bereavement, Maternity Leave</td>
<td>Medical related absence or bereavement</td>
<td>TBD</td>
</tr>
</tbody>
</table>

*Clerkship Program Excused Absence Request Forms*- Once appropriate approval signatures are obtained; forms should be maintained for your records in the event they are requested or required at a later date
POLICY FOR MEDICAL STUDENT SUPERVISION

Supervisors of the Medical Students in the Clinical Setting
The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The role of the student is to participate in patient care in ways that are appropriate for the student’s level of training and experience and to the clinical situation. The student’s clinical activities will be under the supervision of licensed physicians. This supervising physician may delegate the supervision of the medical student to a resident, fellow, or other qualified healthcare provider, however, the supervising physician retains full responsibility for the supervision of the medical students assigned to the clinical rotation and must ensure his/her designee(s) are prepared for their roles for supervision of medical students.

The physician supervisor and his/her designee(s) must be members in good standing in their facilities and must have a license appropriate to his/her specialty of practice and be supervising the medical student within that scope of practice as delineated by the credentialing body of the facility.

Level of Supervision/Responsibilities
Clinical supervision is designed to foster progressive responsibility as a student progresses through the curriculum, with the supervising physicians providing the medical student the opportunity to demonstrate progressive involvement in patient care. MSUCOM students will be expected to follow clinical policies of the facility regarding medical records and clinical care. Medical student participation in patient history/physical exam, critical data analysis, management, and procedures will include factors, but not limited to:

- The student’s demonstrated ability
- The student’s level of education and experience
- The learning objectives of the clinical experience

First and second year medical students will be directly supervised at all times (supervising physician or designee present or immediately available.)

Third- and fourth-year medical students will be supervised at a level appropriate to the clinical situation and student’s level of experience. For some tasks, indirect supervision may be appropriate for some students. Direct supervision would be appropriate for advanced procedures.

Supervising physicians will provide medical students with timely and specific feedback on performance. The supervising physician will complete a mid-rotation evaluative discussion with the medical student. Supervising physicians will complete a summative evaluation and are encouraged to contact the course/clerkship director with any gaps in student performance.

Medical students with any concern regarding clinical, administrative, and educational
or safety issues during his/her rotation will be encouraged to contact the supervising physician or clerkship/course director.

**STATEMENT OF PROFESSIONALISM**
Principles of professionalism are not rules that specify behaviors but guidelines that provide direction in identifying appropriate conduct. These principles include the safety and welfare of patients, competence in knowledge and skills, responsibility for consequences of actions, professional communication, confidentiality, and lifelong learning for maintenance of professional skills and judgments. Professionalism and professional ethics are terms that signify certain scholastic, interpersonal and behavioral expectations. Among the characteristics included in this context is the knowledge, competence, demeanor, attitude, appearance, mannerisms, integrity, and morals displayed by the student to faculty, peers, patients, and colleagues in other health care professions.

Students are expected to conduct themselves at all times in a professional manner and to exhibit characteristics of a professional student.

**STUDENT RIGHTS AND RESPONSIBILITIES**
Each individual student is responsible for their behavior and is expected to maintain standards of academic honesty. Students share the responsibility with faculty for creating an environment that supports academic honesty and principles of professionalism. Proper relationship between faculty and student are fundamental to the college's function and this should be built on mutual respect and understanding together with shared dedication to the education process. It is a fundamental belief that each student is worthy of trust and that each student has the right to live in an academic environment that is free of injustice caused by dishonesty. While students have an obligation to assist their fellow students in meeting the common goals of their education, students have an equal obligation to maintain the highest standards of personal integrity.

**MSU Email**
To facilitate communication from faculty and staff to students, students are required to have a functioning MSU email address. Students are responsible for checking their MSU email accounts daily and maintaining their MSU mailboxes so that messages can be received.

Forwarding MSU email to another email account or failure to check email are not valid excuses for missing a deadline or other requirements of the clinical education program.

Further, students must use secure email when working in a hospital, clinic, or other health care setting if discussion of patient information is involved. MSUNet (msu.edu) email is secure; many web-based email systems including Hotmail, Gmail and Yahoo are not.
FACULTY RESPONSIBILITIES
It is the responsibility of the college faculty to specify the limits of authorized aid (including but not limited to exams, study aids, internet resources and materials from senior students) in their syllabi, and it is the responsibility of students to honor and adhere to those limits. Course instructors shall inform students at the beginning of the semester of any special criteria of academic honesty pertinent to the class or course.

It is the responsibility of the clinical faculty to provide students with ongoing feedback during rotation upon request. Clinical faculty are generally recommended (though not required) to limit student assigned duty hours from 40 to 60 hours weekly (and not exceeding 60 hours). Both faculty and students are to be treated fairly and professionally to maintain a proper working relationship between trainer and trainee.

COURSE GRADES

P/Pass – means that credit is granted, and that the student achieved a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

ET/Extended Grade – means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The ET grade will be changed to a final grade once all the completed course requirements have been submitted to and processed by MSUCOM (either to the department or Clerkship Team). An ‘ET’ grade will NOT remain on a student's transcript.

N/No Grade – means that no credit is granted, and that the student did not achieve a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

N Grade Policy
Students who fail this rotation will have to repeat the entire rotation and fulfill all (clinical and academic) requirements.

STUDENT EXPOSURE PROCEDURE
A form has been developed by the University Physician to report incidents of exposure, e.g. needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and may be found on the Clerkship Medical Education page of the MSUCOM website here (https://com.msu.edu/current-students/clerkship-medical-education).

Contact Assistant Dean for Clerkship Education, Dr. Susan Enright, if exposure incident occurs: enright4@msu.edu.

STUDENT VISA
Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons
with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-RCPD, or on the web at www.rcpd.msu.edu. Once a student’s eligibility for (clinical and/or testing) accommodation has been determined, the student may be issued a Verified Individualized Services and Accommodations (VISA) form. Students must present this VISA form to the Clerkship Team (COM.Clerkship@msu.edu), A-332 East Fee Hall, at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after this date will be honored whenever possible.

If updates or modifications to an existing VISA form are made after the semester begins, it is the responsibility of the student to submit an updated version to the Clerkship Team if he or she intends to use the new accommodation going forward.
# STUDENT EXPERIENCE LOG

Student Name ________________________________ Student ID# _______________________

Dates of Rotation: ________________________________________________________________

## PATIENT TYPES AND PROCEDURE LOG

<table>
<thead>
<tr>
<th>Procedure</th>
<th>#Required</th>
<th>Date</th>
<th>Supervisor Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluate 2 patients with cancer</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.</td>
<td></td>
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<tr>
<td>Evaluate 2 patients with anemia</td>
<td>1.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpret 10 CBC</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.</td>
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<td>3.</td>
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<td>4.</td>
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<td>9.</td>
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<td></td>
<td>10.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Participate in five Hematology/Oncology consults in the hospital or office.</td>
<td>1.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>2.</td>
<td></td>
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<tr>
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<td>3.</td>
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<td></td>
<td>5.</td>
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</tr>
</tbody>
</table>
## SUMMARY OF GRADING REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Submission Method</th>
<th>Honors</th>
<th>Pass</th>
<th>Extended Grade</th>
<th>No Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Types and Procedure Log</td>
<td>See page above and upload into D2L Drop Box for the course</td>
<td>N/A</td>
<td>Must be completed and uploaded by 11:59 pm Last Sunday of Rotation</td>
<td>The student who fails to turn in required paperwork, who has a verifiable reason why they failed to do so, will be allowed a 2-week grace period or more depending on the circumstances.</td>
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</tr>
<tr>
<td>Clinical Shift Schedule</td>
<td>Online D2L Drop Box</td>
<td>N/A</td>
<td>Not to be submitted until the last Friday-Sunday of the rotation, and must be the schedule you worked, not what you were scheduled to work.</td>
<td></td>
<td>Failure to meet this two week deadline will result in an N grade.</td>
</tr>
<tr>
<td>Attending Evaluation of Clerkship Student</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td>N/A</td>
<td>Must be completed and uploaded by Last Day of Rotation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Requirement</td>
<td>Submission Method</td>
<td>Honors</td>
<td>Pass</td>
<td>Extended Grade</td>
<td>No Pass</td>
</tr>
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</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation</td>
<td>Can be accessed and submitted via the “Student Evaluation” link in Kobiljak online schedule.</td>
<td>N/A</td>
<td>Must be completed and uploaded by Last Day of Rotation</td>
<td>The student who fails to turn in required paperwork, who has a verifiable reason why they failed to do so, will be allowed a 2-week grace period or more depending on the circumstances.</td>
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