

IM 669
EMERGENCY MEDICINE
ULTRASOUND

CLERKSHIP ELECTIVE ROTATION SYLLABUS

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At Michigan State University College of Osteopathic Medicine (MSUCOM), we are constantly working to improve our curriculum and to meet 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 rotation.

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ROTATION REQUIREMENTS

REQUIREMENT	SUBMISSION METHOD (For submission due dates, refer to table at the end of the syllabus)
Mid Rotation Form	Completed 100% and needing no revisions to the appropriate drop box in D2L
Shift Schedule (must be the schedule you worked, not what you were scheduled to work)	Online D2L Drop Box
Procedure Log (Activities that were involved in the curriculum – i.e., online modules for US education, bedside US exams completed under supervision)	Upload into D2L Drop Box for the course
Attending Evaluation of Clerkship Student	Students must select their attending physician as directed within the rotation description in Medtrics. At the start of the last week of the rotation, students will need to request an evaluation in Medtrics. By requesting an attending evaluation from their assigned attending physician, the attending physician will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics. Attendings will be able to electronically access and submit the forms on behalf of their students.
Student Evaluation of Clerkship Rotation	Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: https://msucom.medtricslab.com/users/login/ . By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation. Students can also access pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.

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. This syllabus provides an overview of rotation goals and objectives designed to help you gain an understanding of the breadth and scope of Emergency Medicine Ultrasound.

The EM Ultrasound rotation is intended to provide the student with experience in the evaluation and use of ultrasound in the bedside management of patients. This elective is designed for the student completing a formal Ultrasound rotation at a site with an ultrasound training program that is already established. Not all hospitals provide such a rotation, and the ability to obtain access, and arrange participation and travel is solely dependent on the student. **The rotation**

must be set up at least four months ahead of travel, and the student must obtain college and departmental approval. Learning objectives are minimally defined below, and more formally may be detailed as well by the site that is offering the elective. Students are responsible for any enrollment fees, travel, and lodging expenses. This must be an ultrasound specific rotation, not ultrasound with other patient care duties.

ELECTIVE COURSE SCHEDULING

Preapproval

- This course requires preapproval. The student must contact the IOR/CA via email with the following details of the rotation/rotation site when seeking preapproval:
- Approvals from the facility where the rotation will occur and Clerkship Team (COM.Clerkship@msu.edu) is required for every elective rotation. Not all hospitals can provide this type of rotation, and the ability to obtain access, and arrange participation and travel is solely dependent on the student. The rotation must be set up at least four months ahead of travel, and the student must obtain college and departmental approval. The CV of the supervising faculty member, the goals and objectives of their rotation, and proposed schedule should be submitted 4 months in advance for approval by the instructor of record.
 - 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 MSUCOM.
- Student must complete five core rotations prior to any elective rotation.
- It is the student's responsibility to provide the elective site/rotation acceptance material to the COM.Clerkship@msu.edu for MSU confirmation and scheduling.
 - MSUCOM clerkship confirmation is complete when the rotation is visible on the students Medtrics schedule.
- It is the student's responsibility to ensure enrollment prior to beginning any course/rotation.
 - Enrollment will be processed by the MSUCOM Registrar's Office upon clerkship confirmation.
 - Enrollment can be verified by the student by reviewing the Student Information System
- MSUCOM confirmation must occur at least 30 days in advance of the rotation.
- Once confirmed, the rotation may only be cancelled 30 days or more in advance of the start date.

ROTATION FORMAT

Rotations are typically two weeks, three credit hours or four weeks, six 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 EM Ultrasound as related to the specialty of the preceptor.
2. Describe the indications, limitations, and clinical utility of core Emergency Medicine Ultrasound applications, including:
 - Focused Assessment with Sonography in Trauma (FAST)
 - Cardiac (Focused Echo/POCUS Echo)
 - Aorta (AAA evaluation)
 - Inferior vena cava (IVC) assessment
 - Renal and bladder ultrasound
 - Biliary and right upper quadrant ultrasound
 - Obstetric/gynecologic applications (first-trimester pregnancy)
 - Lung ultrasound (pneumothorax, B-lines, pleural effusion)
 - Deep vein thrombosis (DVT) screening
3. 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.
4. Demonstrate an understanding of the (seven) osteopathic core competencies (as applicable).

OBJECTIVES

By the end of this module, a fourth-year medical student will be able to complete all requirements as listed in the syllabus of the site where the rotation was completed, with verification of preceptor.

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

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complete list provided on the MSUCOM website (<https://com.msu.edu/>) and in the Student Handbook.

REFERENCES

REQUIRED STUDY RESOURCES

Desire 2 Learn (D2L): Please find online content for this course in D2L (<https://d2l.msu.edu/>). Once logged in with your MSU Net ID, your course will appear on the D2L landing page. If you do not see your course on the landing page, search for the course with the following criteria, and pin it to your homepage: **Emergency Medicine Ultrasound**

If you encounter any issues accessing this D2L course, please email the CA (on the title page of this syllabus). It is your responsibility to make sure you have access to the course D2L page on the first day of the course.

Student D2L email addresses must be forwarded to your MSU email account.

SUGGESTED STUDY RESOURCES

Recommended Texts

- Ma and Mateer's Emergency Ultrasound, 4e, 2021. John Ma, James R. Mateer, Robert F. Reardon, <https://accessemergencymedicine-mhmedical-com.proxy2.cl.msu.edu/book.aspx?bookid=2966>
- Atlas of Pediatric Emergency Medicine, 3E, 2019; Binita R. Shah, Prashant Mahajan, John Amodio, Michael Lucchesi Chapter 21, Emergency Ultrasound <https://accessemergencymedicine.mhmedical.com/content.aspx?bookid=2616§ionid=216059660>
- Access Emergency Medicine: Ma and Mateer's Emergency Ultrasound Chapter 3: The Science of Image Generation 4e; 2021, <https://accessemergencymedicine-mhmedical-com.proxy2.cl.msu.edu/content.aspx?bookid=2966§ionid=249997612> (
- Access Emergency Medicine: Ma and Mateer's Emergency Ultrasound. Chapter 9: Trauma, 4e, 2021 <https://accessemergencymedicine-mhmedical-com.proxy2.cl.msu.edu/content.aspx?bookid=2966§ionid=249992603>
- Access Emergency Medicine: Ma and Mateer's Emergency Ultrasound. Chapter 16: First Trimester Pregnancy, 4e, 2021 <https://accessemergencymedicine-mhmedical-com.proxy2.cl.msu.edu/content.aspx?bookid=2966§ionid=249988928>

Recommended Websites

Free Open Access Medical Education Resources on Point of Care Ultrasound:

- SonoGuide. American College of Emergency Physicians, <https://www.acep.org/sonoguide>
- 5 Minute Sono, Core Ultrasound. <https://coreultrasound.com/5ms/>
- Highland Ultrasound Pain Management. <https://highlandultrasound.com/management>
- Ultrasound Director. www.ultrasounddirector.com
- The POCUS Atlas. <https://www.thepocusatlas.com/>

WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS

MID ROTATION FEEDBACK FORM

This form is required for this rotation, including both two- and four-week rotations.

Two-week Rotation: This will need to be completed by the Attending or Resident and dated by the 1st Friday of the rotation. Students must upload the form to a D2L drop box by 11:59 on the last day (Sunday) of the rotation.

Four-week Rotation: This will need to be completed by the Attending or Resident at the end of week two of the rotation. It should be dated no later than the 3rd Wednesday of the rotation. Students must upload the form to a D2L drop box by 11:59pm on third Sunday of the clerkship to be eligible to obtain a Pass in the rotation.

PROCEDURE LOGS

In D2L under Course Requirements is the IM 669 Patient/Procedure Log to be completed during your rotation and uploaded into the corresponding drop box. It is the hope that you have an opportunity to evaluate / interpret and participate in some rotation specific consults. We understand not all sites experience all the procedures listed. Please seek out and ask to be included where you can.

Note to students: Many specialties use point of care ultrasound, and each has their own unique number of supervised exams to qualify for credentialing in ultrasound. Keeping track of logs of ultrasounds completed and verified now will help you attain this credential. The IM 669 Patient/Procedure Log sheet is minimal, but keeping a separate log of all images obtained and reviewed and signed off on will be advantageous to you in the future.

ROTATION EVALUATIONS

Attending Evaluation of Student

Attending Evaluation of the Student is completed electronically via Medtrics by the supervisor designated within the Medtrics rotation description. To initiate this evaluation, each student must select their attending physician as directed within the rotation description in Medtrics. Students will receive an email from Medtrics to select the attending 7 days prior to the end of the rotation. Should your rotation lack a rotation description or if you have any questions, please contact COM.Clerkship@msu.edu. Upon selecting the attending physician directed within the Medtrics rotation description, the attending physician will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics.

Attendings will be able to electronically access and submit the Attending Evaluation of the Student. Attendings will access the electronic form within Medtrics by selecting the email link on a smart device. No login (username/password) will be required for attendings to access their pending evaluation(s) assigned to them. After the electronic form has been submitted by their attending, students can review the Attending Evaluation of the Student that were completed by visiting the 'Evaluations' module (in the 'About Me' tab) of their Medtrics profiles.

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Students are encouraged to seek formative/verbal feedback on their performance at least weekly. Students are also encouraged to discuss the Attending Evaluation of the Student with the supervisor completing the evaluation.

Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” and will be referred to the Committee on Student Evaluation (COSE).

Student Evaluation of Clerkship Rotation

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

<https://msucom.medtricslab.com/users/login/>. By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation for the respective rotation. Students can also access their pending evaluations on the ‘Home’ or ‘Evaluations’ tabs within their Medtrics accounts.

Unsatisfactory Clinical Performance

The Instructor of Record will review/investigate a student’s performance on a rotation when a concern is raised by the supervisor(s), and/or 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. After investigations, the Instructor of Record will determine a final grade for the student.

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

The following assignments are eligible for corrective action. Students who were not successful on these assignments during the course will receive an NGR grade and permitted to go through a ‘corrective action’ process. Corrective Action will be due no later than 14 days after the last day of the rotation at 11:59pm:

- Mid Rotation Feedback Form
- Shift Schedule
- Activities that were involved in the curriculum (further details in Summary of Grading Requirements)

The student is responsible for contacting the Course Assistant (on the title page of this syllabus) if they believe missing assignments were reported in error, or if they are unclear about the corrective action process.

While it is the responsibility of the student to ensure that the Attending Evaluation of Clerkship Student is completed, this requirement may extend beyond the corrective action deadline.

If a student **successfully completes** the corrective action process, as determined by the IOR, the student will receive credit for the deficient academic grading requirement(s) and be eligible for a change in rotation grade (from NGR to Pass, pending the Attending Evaluation of Clerkship Student)

As determined by the IOR, the student will receive an N grade for the course if all assignments and the corrective action process are **not completed** successfully within 14 days after the last day of rotation at 11:59pm (except for 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 at which they are completing a rotation. Students are not responsible for reporting to MSUCOM the results of any requirements that exist outside of those listed above.

COURSE GRADES

All rotation requirements must be completed to determine a grade for the course. Students are required to ensure their rotation requirements are completed and submitted correctly.

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.

NGR/No Grade Reported – means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The NGR 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 'NGR' 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 or find a suitable replacement rotation to make up the credits.

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. A syllabus must be submitted at the time the student applies for approval of the rotation.

- *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 **student's** responsibility to notify the Clerkship Office (com.clerkship@msu.edu) immediately if they are placed on quarantine or contract COVID.

ATTIRE AND ETIQUETTE

During your clinical rotation, you will be a part of many different learning environments and will be given great deal of responsibility. Importantly, most of your patients will consider you a critical member of the medical team and see you as a physician. Given this, it is vital that a high level of professional behavior is maintained.

Outward appearance is particularly important in this regard and is critical for initial impressions and for gaining the respect of your patients. For this reason, please adhere to the following dress code during your clerkship:

- No open toe shoes, flip-flops, or sandals are allowed at any time. Socks are always a public health code requirement.
- Scrubs are provided for situations where extended periods of patient care necessitate more comfortable clothing or a change in clothing.
- At ALL times when patient contact is expected or anticipated, your waist-length WHITE COAT will be worn, with your ID badge worn above the waist.
- As this policy simply represents general guidelines, we encourage anyone with uncertainties or questions regarding the dress code to reach out to the student director for confirmation.
- Wear a waterproof gown when blood or body fluid may soak a cloth gown.
- If you accidentally have blood or body fluids splattered on your clothing, at the next convenient time, you should excuse yourself, change into hospital scrubs, and put your contaminated clothing in a separate bag for later laundering.
- If the site where you are rotating has their own dress requirements, please follow them.

MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES

The following are standard MSUCOM policies across all Clerkship rotations.

CLERKSHIP ATTENDANCE POLICY

MSUCOM requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge necessary for successful program completion. This policy will define the policy and procedures regarding absences for clerkship activities. [Policy - Clerkship Absence 2025.pdf](#)

POLICY FOR MEDICAL STUDENT SUPERVISION

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The Medical Student Supervision Policy outlines all supervision agreements and expectations. [Clerkship Medical Student Supervision Policy.pdf](#)

MSUCOM STUDENT HANDBOOK

The Student Handbook is published electronically by MSUCOM for students in the Doctor of Osteopathic Medicine program. This handbook does not supersede other Michigan State University or College of Osteopathic Medicine policies, regulations, agreements, or guidelines. <https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

COMMON GROUND FRAMEWORK FOR PROFESSIONAL CONDUCT

The Common Ground Framework provides the MSUCOM community with a reminder of the unity of mind, body, and spirit that underlines the field of osteopathic medicine. The framework is a set of guiding, foundational principles that underpin professional conduct and integrity and applies to all professionals at work within the shared college community, independent of their specific roles or responsibilities.

<https://osteopathicmedicine.msu.edu/about-us/common-ground-professionalism-initiative>

MEDICAL STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of students enrolled in MSUCOM are defined by the medical colleges of Michigan State University, including the College of Osteopathic Medicine, the College of Human Medicine, and the College of Veterinary Medicine. Students enrolled in the professional curricula of these colleges are identified as “medical students.” These colleges collectively define “Medical Student Rights and Responsibilities” (MSRR). This document addresses academic rights and responsibilities, governance, procedures for complaints, due process, and other topics. The current version is available on the MSU Spartan Life website at the address below: <http://splife.studentlife.msu.edu/medical-student-rights-and-responsibilities-mssr>

MSU EMAIL

MSU email is the official communication from faculty and staff to students and students are responsible for checking it daily and maintaining their MSU email accounts so that messages can be received. Students are responsible for responding to email in a timely manner or as otherwise outlined in course communication.

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 DO program.

Please Note: Student D2L email addresses must be forwarded to your MSU email account.

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. <https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

DUTY HOURS AND FATIGUE MITIGATION

The accreditation standards for graduate medical education programs include restrictions on the duty hours of residents. Additionally, institutions are expected to promote a clinical learning environment in which duty hours are monitored and strategies exist to mitigate the effects of fatigue. [Clerkship Duty Hours and Fatigue Mitigation Policy.pdf](#)

STUDENT EXPOSURE PROCEDURE

A protocol has been developed by the University Physician to report incidents of exposure, e.g., needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and it may be found here:

<https://osteopathicmedicine.msu.edu/current-students/clerkship-medical-education/injury-and-property-damage-reports>

Contact Associate Dean for Clerkship Education, Dr. Susan Enright (enright4@msu.edu), if exposure incident occurs.

STUDENT ACCOMMODATION LETTERS

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(s) are determined, the student may be issued an Accommodation Letter. Students must present their letter to the Clerkship Team (COM.Clerkship@msu.edu) at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after the semester onset will be honored whenever possible.

If modifications, updates, or extensions to an existing letter are made after the semester begins, it is the responsibility of the student to submit the newest version to the Clerkship Team if he/she intends to utilize the accommodation going forward.

SUMMARY OF GRADING REQUIREMENTS

*For any below information requiring an item be uploaded to D2L, students must ensure it is put into the correct folder within the correct section for their course.

Requirement	Submission Method	Pass	No Grade Reported	No Pass
Mid Rotation Feedback Form	Submit via D2L	<ul style="list-style-type: none"> Completed, scanned, and uploaded to D2L. Must be 100% complete and needing no revisions by: <ul style="list-style-type: none"> Four-week rotations- 11:59 pm on the 3rd Sunday of the rotation. Two-week rotations- Dated by 11:59pm on the 1st Friday of the rotation; uploaded by 11:59pm on the last day (Sunday) of the rotation. 	Will be the conditional grade until all requirements of this rotation are met.	Failure to complete 100% and upload by 14 days after the last day of the rotation at 11:59 pm
Shift Schedule	Online D2L Drop Box	Submitted by 11:59 pm on the last Sunday of Rotation. NOT to be submitted before the last Friday of the rotation, and must be the schedule you worked, not what you were scheduled to work	Will be the conditional grade until all requirements of this rotation are met	Failure to complete and submit within 14 days from the end of the rotation at 11:59 pm
Activities that were involved in the curriculum – i.e., online modules for US education, bedside US exams completed under supervision, PROCEDURE LOG	Upload into D2L Drop Box for the course	Submitted by 11:59 pm on the last Sunday of Rotation	Will be the conditional grade until all requirements of this rotation are met	Failure to complete and submit within 14 days from the end of the rotation at 11:59 pm
Attending Evaluation of Clerkship Student	Attendings receive an automated email link connecting them to their assigned evaluation(s) within Medtrics, where they may access and submit the electronic form(s) directly	<ul style="list-style-type: none"> Student may receive “Below Expectations” in up to one (1) subcategory. Overall categories must receive “Meets Expectations” or “Exceeds Expectations” 	Will be the conditional grade until all requirements of this rotation are met	<ul style="list-style-type: none"> Receives two (2) or more “Below Expectations” within the subcategory sections. Receives comments that indicate below expectations of performance. See Unsatisfactory Clinical Performance above

Requirement	Submission Method	Pass	No Grade Reported	No Pass
Student Evaluation of Clerkship Rotation	Can be accessed and submitted electronically by students within the dashboard of their Medtrics profiles	Completed 100% by 11:59 pm the last day of the rotation	Will be the conditional grade until all requirements of this rotation are met.	Failure to complete and submit within 14 days from the last day of the rotation



College of Osteopathic Medicine
MICHIGAN STATE UNIVERSITY

MID-ROTATION FEEDBACK FORM

Rotation Name: _____

Student Name: _____

Evaluator Name: _____

Evaluator Signature: _____

Date of review with Student: _____

1. This assessment is based on:

- ☐ My own observations and interactions with the student.
☐ Feedback received from other faculty and/or resident supervisors.

2. The student is progressing satisfactorily for their level of training:

☐ YES ☐ NO

If NO, please summarize areas needing improvement below:

3. Overall comments on student performance

Strengths:	Areas of Improvement:

4. Please check only areas of student **DIFFICULTY**:

<input type="checkbox"/>	On time for all activities of the rotation	<input type="checkbox"/>	Present/Prepared for all activities of rotation
<input type="checkbox"/>	Respectful/courteous to patients, staff, peers, attending's	<input type="checkbox"/>	Student is aware of limitations and appropriately seeks assistance when needed
<input type="checkbox"/>	A great team player (helpful, reliable, proactive)	<input type="checkbox"/>	Accepting of feedback and made necessary changes because of the feedback
<input type="checkbox"/>	Engaged in learning	<input type="checkbox"/>	Honest and trustworthy
<input type="checkbox"/>	A good patient advocate	<input type="checkbox"/>	Work ethic