Musculoskeletal Care
IDPT 7021

Curriculum & Course OVERVIEW

The following information provides an overview of the 2016-2017 Academic year for the Musculoskeletal Care Curriculum.

All course information will be found on the Musculoskeletal Care CANVAS site. The CANVAS site includes the learning materials and requirements.

Note: The sole purpose of this document is to provide an OVERVIEW of the Musculoskeletal Care Clerkship. Specific course and curriculum requirements are housed on the Musculoskeletal Care Clerkship CANVAS pages, which supersede any and all information included in this document.

Musculoskeletal Care Faculty & Staff Contact Information

Co-Directors
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William Sullivan, MD  william.sullivan@ucdenver.edu

Coordinators
Kelly Wright (Kelly.Wright@ucdenver.edu)  303-724-7354
Becky Lewis (Rebecca.2.Lewis@ucdenver.edu)  303-724-7378

Please contact Kelly or Becky with questions regarding course locations, rotation issues, clinic questions, exam issues, and course requirements.

Disclaimer:

This handbook/syllabus does not constitute a contract, either expressed or implied, with the University of Colorado School of Medicine and the University reserves the right at any time to change, delete or add to any of the provisions at its sole discretion. Furthermore, the provisions of this document are designed by the University to serve as guidelines rather than absolute rules, and exceptions may be made on the basis of particular circumstances.
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Welcome

Musculoskeletal Care is a two-week block taught by faculty in:

- Orthopedic Surgery
- Physical Medicine and Rehabilitation
- Radiology
- Rheumatology

The block will focus primarily on outpatient musculoskeletal care involving acute and chronic conditions, rehabilitation, and skeletal health maintenance. The clinic experience will take place in the orthopedic, physical medicine & rehabilitation and rheumatology outpatient clinics within the SOM clinical affiliates.

- The University of Colorado Hospital
- Denver Veterans Administration, Eastern Colorado Healthcare System
- Denver Health Medical Center
- Children’s Hospital Colorado

In order to offer preceptor continuity student schedules mirror faculty schedules and thus various sites of practice. Students can expect to work out of more than one the four affiliate sites while on the block. Please refer to the “Accommodations” or the “Site/Preceptor Assignment” sections of the syllabus for more details regarding site assignments.

STUDENTS DO NOT ATTEND THEIR FOUNDATIONS CLINIC DURING THIS TWO-WEEK BLOCK.

Rationale and Expectations

The Musculoskeletal Care block offers a two week experience within orthopedics, PM&R, radiology and rheumatology. The ten day block provides students with the opportunity to develop diagnostic, physical exam and treatment planning skills as related to MSK conditions.

MSK conditions are among the most common explanations for visits to physicians’ offices. Annually 15-30% of the population seeks care for MSK conditions. The presentation of such ailments can be expected to increase with an aging population. Correspondingly, MSK knowledge and competency are integral for successful practices in internal medicine, family practice, emergency medicine, geriatrics and pediatrics. Proficiency with the outlined core competencies will enhance the professional growth of all phase III students regardless of expected specialization.
Core Clinical Conditions

Students will have to opportunity to directly and/or indirectly experience the following conditions.

- Arthritis
- Neck & Back Pain
- Knee Injury
- Fracture Management
- Hip OA
- Compression Neuropathy
- Ankle Sprain
- Lateral Epicondylitis
- Rotator Cuff Injuries
- Osteoporosis & the Female Triad
- MSK Emergencies
- Pediatric Orthopedics

Successful completion of the course requires direct or indirect experience of the following items are outlined by the course logger.

<table>
<thead>
<tr>
<th>Required Responsibilities</th>
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<tr>
<td>Spine Conditions</td>
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</table>

Course Objectives

By the end of the course students will be able to:

1. Perform of a **history and physical exam of the musculoskeletal system**; integrated with an understanding of the underlying anatomy.

2. Interpret **basic laboratory and imaging studies** of the musculoskeletal system.

3. Perform (and/or observe) joint aspirations and other injections.

4. Demonstrate a knowledge and understanding of MSK-Core Clinical Conditions (outlined above).
Course format and timeline

Students will be assigned to a master educator with whom they can expect to spend 40-60% of primary clinical sessions (excluding didactic and complementary clinical sessions). The classification of primary clinical session is determined by the specialty of the master educator (i.e. orthopedics, PM&R, or rheumatology). An additional educator from the primary clinical specialty may be integrated to fill gaps in the master educator’s clinical schedule. In addition to the master educator(s) students will be assigned to three additional faculty in keeping with the multi-department course structure. These sessions are considered the complementary clinical sessions.

Course schedules will include morning and afternoon assignments, totaling on average 20 sessions for the ten day block. Didactic and physical exam sessions will occur once a week, generally on Wednesday mornings. In the latter half of the block students should have completed the majority of their required readings and the Fracture Case/Quiz assignment. The last Friday afternoon of the block will be allocated to completing remaining readings and the MSK Exam. This allocation may be removed at the discretion of course directors in the case of shortened blocks due to holiday closures. Submission of two DOFs and the logger is required for course completion.

Attendance Policy

Students are not permitted to miss more than 2 days of 10-day rotations. All missed days must be made up. Failure to make up days will result in an IF or F grade.

- If you are ill and unable to perform clinical care, please notify the block directors (Frank Scott and Bill Sullivan), course coordinators (Kelly Wright and Becky Lewis), and the clinician you are assigned to work with for the corresponding date. Please provide as much notice as possible.
- Makeup days are usually set up by taking weekend call at Denver Health with the orthopedic resident on call. This must be arranged in advance with notification of Dr. Scott, Dr. Sullivan, and the resident.

Accommodations

Students requesting an ADA compliant site assignment or testing accommodations should coordinate with the SOM, Office of Student Life. Of note, “Close Location Approval” is not equivalent to ADA compliant site assignments and also requires approval from the SOM, Office
of Student Life. The SOM defines “Close Location Approval” as site assignments which can be reached from the student’s official place residence within 90 minutes.

To ensure disability-related concerns are properly addressed, students with disabilities who require assistance to participate in this class should contact the Office of Disability Resources and Services, Building 500, room Q20-EG305, 13001 E 17th Place, Aurora, CO 80045, 303-724-5640 to request accommodation.

Any students with disabilities or other special needs, who need special accommodations in this course, are invited to share these concerns or requests with the instructor and contact the Disability Services Office [http://www.ucdenver.edu/student-services/resources/disability-resources-services/Pages/disability-resources-services.aspx] as soon as possible.

First day reporting section

Students should refer to their welcome email, course schedule and/or correspondence with the course coordinators for the orientation location information. In general the course will begin with an orientation session from 7:15-8:00am on the first day of the block in AO1. Location information for clinical sites can be found on the “Check-In Instructions” document which is available via Canvas and in the student course folder (provided at orientation).

Security, Student Safety, and Disaster Preparedness

Institutional emergency and disaster preparedness policies and plan are outlined in the “Emergency-Preparedness Quick-Reference Guide” for the Anschutz Medical Campus. The link is published in the Clinical Block Syllabus, posted on Canvas [http://ucdenver.canvas.com], and located next to emergency phones (e.g., ED1 and 2) as well as many of the student lounge areas, small group rooms, and lecture halls. Colorado Springs Branch students located have similar policies and procedures provided by the branch.

Medical Student Policies and Procedures Manual “White Book” ([http://www.ucdenver.edu/academics/colleges/medicalschool/education/studentaffairs/studentresources/Documents/StudentHandbook.pdf](http://www.ucdenver.edu/academics/colleges/medicalschool/education/studentaffairs/studentresources/Documents/StudentHandbook.pdf)) publishes emergency information (section 4.1), “In an emergency, both the Office of Student Life (303-724-6407) and the Registrar’s Office (303-724-8053) will make reasonable efforts to contact a student or a student’s designated emergency contact.”

Emergency information is also found on the Student Life web site: [http://www.ucdenver.edu/academics/colleges/medicalschool/education/studentaffairs/emergencies/Pages/Emergencies.aspx](http://www.ucdenver.edu/academics/colleges/medicalschool/education/studentaffairs/emergencies/Pages/Emergencies.aspx)
MSK Contacts:

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303-724-7354  
Pager: 303-266-2644

Becky Lewis  
Rebecca.2.Lewis@ucdenver.edu  
303-724-7378

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Recommended Resources

The following materials are provided for student use while on the MSK block. Canvas materials are available prior to and following the course.

- *Musculoskeletal Medicine*, J. Bernstein
- *Musculoskeletal Physical Exam An Evidence Based Approach*, G. Malanga & S. Nadler
- Required Canvas Readings & Videos
- Optional Canvas Readings & Videos

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Assignments

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Format</th>
<th>Submission Method</th>
<th>Due Date</th>
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</thead>
<tbody>
<tr>
<td>Fracture Quiz</td>
<td>Canvas</td>
<td>via Canvas</td>
<td>By 11:59pm Last Day of Block</td>
</tr>
<tr>
<td>DOF 1</td>
<td>Paper Form</td>
<td>via Canvas</td>
<td>By 11:59pm Last Day of Block</td>
</tr>
<tr>
<td>DOF 2</td>
<td>Paper Form</td>
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<tr>
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</table>
Direct Observation & Mid-Point Review Feedback Forms

Direct Observation Forms

- Students are required to have one direct observation form completed per week by a supervising physician (or resident/PA within the clinical team).
- Completion of at least (2) direct feedback forms is required for course completion.

Quiz/Exam

Completion of the MSK block requires a passing grade for the Fracture Quiz and MSK Exam, both are accessible via Canvas. The Fracture Quiz includes case materials that should be read prior to completing the quiz. A passing grade for the Fracture Quiz is 40/50. Students have an unlimited attempts to achieve a passing grade. The MSK Exam includes 30 questions which must be completed within an hour of starting the exam. Students should be prepared for the Canvas exam system to lock down their browser during the course of the exam. A passing grade for the MSK Exam is 60%. Student’s MSK Exam grade will be included in their “Final Course Evaluation”.

Evaluations and Grading

Evaluations:
We are using an online evaluation system through New Innovations.

ALL evaluations will be on New Innovations (https://new-innov.com). If anyone has not logged into New Innovations, the username is first name initial with last name (for example, John Smith is "jsmith") and the default password is the same until the user changes it.

Faculty Evaluation of Students-
Master Educator is the primary evaluator of the student. One to two other faculty on the rotation will also submit evaluations. A resident may be asked to submit an evaluation as well.

Student Evaluation of Faculty-
Students will be asked to evaluate their Master Educator and one other faculty on the rotation. Students may also select one additional faculty of his/her choice to evaluate. Students may also be asked to evaluate a resident.
Grading: all items are required for a passing grade

- Evaluations – Master Educator and 1-2 additional faculty
- MSK Small Group & PE attendance and participation
- Online Examination – passing grade is 60%
- MSK Logger - submission via Canvas
- 2 Direct Observation Forms - submission via Canvas
- Fracture Case on Canvas - completion & passing grade of quiz (40/50)

*Grades will not be issued until both textbooks are returned*

The MSK block is a Pass/Fail course.

### Hazard Exposure/Needle stick

Medical Treatment: Employees and student interns that have needle-sticks or bodily fluid exposures should seek immediate medical attention in the Emergency Room of the hospital where the work related incident occurs.

Exceptions are:

- University of Colorado Hospital (UH) - Go to the Infectious Disease Clinic at Anschutz Outpatient Pavilion, 1637 Aurora Court, 7th floor, between 8:00 AM and 4:00 PM Monday - Friday, or the Emergency Room after hours.
- Denver Health Medical Center (DHMC) - Go to the Occupational Health and Safety Center (corner of 6th Avenue and Bannock, 4th Floor) between 8:00 AM - 3:30 PM Monday through Friday or the Emergency Room after hours.

- Employees/Student Interns working in small clinics or in laboratories off campus should go to the nearest emergency room or facility that can perform a blood draw. Students, volunteers or others not covered by workers’ compensation should contact their personal healthcare provider.

On the CUSOM website at: [Needle-Stick & Bodily Fluid Exposures](#)

### Site/Preceptor Assignments

Site and preceptor assignments are based on optimal faculty availability for the corresponding section. As all schedules offer exposure to each of the four specialties (orthopedics, PM&R, radiology and rheumatology) student are not required to submit site or preceptor preferences.
Logger

In order to ensure that students are seeing all of the required conditions and adhering to duty hour restrictions during Phase III, the following requirements of students and clerkship directors are in place:

- **Logger Requirements**
  - Update the Logger at least once weekly, including duty hours for the week.
  - Only required to log a required clinical condition once during the block in which it is required.
  - Log honestly, including truthfully reporting duty hours and patients seen.
  - Provide the logger to the clerkship director or their designee at the midpoint and end of a block, or at the end of the block for blocks less than 4 weeks in length.

- **Duty Hour Requirements**
  In addition to your clinical responsibilities, students are required to complete Phase III Foundations of Doctoring course requirements and occasional activities mandated by the Dean of Student Affairs. In addition:
  - Students will have no more than 80 hours a week of scheduled participation averaged over a course. This does not include time students should spend reading about their patients or doing patient write ups.
  - Students will have no more than 30 consecutive hours of scheduled participation during one period of time.
  - Students will have a minimum of 24 consecutive hours scheduled off in 7 days averaged over a course.
  - **Violating Duty Hour Requirements is not considered possible while on the MSK block by nature of the course schedule and restrictions.**

- **Clerkship Directors or their Designee will:**
  - Review the student logger data at the midpoint and end of a block, or end of the block for blocks less than 4 weeks in length, to ensure students are on track to see all required clinical conditions.
  - Review aggregate data twice yearly to ensure that all required clinical conditions are seen by all students and to ensure that alternate methods are used minimally to achieve this.

Students not completing their requirements will face the following consequences:

- Dishonest Logging of Patient Encounters or Duty Hours will be deemed a violation of the Student Honor Code and be referred to the Student Honor Council for further discussion.
- Students will not receive a grade until a completed logger has been turned in at the end of the block.

Please refer to the video presentation from ICC 7001 for instructions on how to successfully use the logger if you run into technical issues.
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The MSK logger is composed of the following required responsibilities.

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**Professionalism**

Students are expected to engage in behavior befitting members of the University of Colorado, School of Medicine. Professional dress is required at all times. Shorts, jeans or flip-flops are not permitted. Likewise, all clothing should be clean and fit properly. **Students are only permitted to wear scrubs in the OR or Spine Clinic. Students may be asked to change if they arrive for clinic or didactic sessions in scrubs.** Profanity is not permitted in any context. Students should err on the side of utmost respect when interacting with patients and clinical team members. Inappropriately casual behavior will be considered a violation of professionalism policies.

**Academic Honesty Statement**

Students are expected to adhere to the Honor Code of the University of Colorado School of Medicine which states that students must not lie, cheat, steal, take unfair advantage of others, nor tolerate students who engage in these behaviors. Please check the website for information on the Medical Student Honor Code.

[http://www.ucdenver.edu/academics/colleges/medicalschool/education/studentaffairs/AcademicLife/HonorCouncil/Pages/default.aspx](http://www.ucdenver.edu/academics/colleges/medicalschool/education/studentaffairs/AcademicLife/HonorCouncil/Pages/default.aspx)

Students are also expected to:

- Contact the appropriate block faculty and student life for all voluntary and involuntary absences.
- Check email and Canvas regularly for communication about block activities and updates. Respond within 24 hours to all block emails requiring individual student response.
- Attend all block conferences and required events and arrive on time to these events.
- Complete all required coursework and evaluation.
- Use smart phones and electronic tables with discretion.
Wear professional dress. **Scrubs are not permitted outside of the OR or Spine Clinic, including in didactic or PE sessions.**

### Reporting issues of professionalism of others:

The Office of Professionalism exists to provide faculty, residents, fellows and students a resource on campus to obtain a fair and equitable treatment for all matters. Under appropriate circumstances, the office can serve as an advocate for fair and equitable treatment for faculty, residents, fellows, and students and can facilitate safe reporting of mistreatment or abuse.

The Office is available to help faculty, residents, fellows, and students with all issues and concerns and provides consultations, short-term coaching, counseling, referrals, alternative dispute resolution and facilitation. The Office can also assist faculty, students, and staff members in preparation for various meetings and conversations.

The services of the Office of Professionalism are provided free of charge.

Contact the office by emailing Barry H. Rumack, MD at barry.rumack@ucdenver.edu or Josette Harris at Josette.harris@ucdenver.edu. For faster response, (no confidential information please) call 303-724-7854. Offsite and onsite visits are by appointment only. Building 500, 8th floor, room 8000C.

### Mistreatment

If a student feels that he or she has been subject to mistreatment in the learning or clinical environment, there are a variety of options for reporting. We recognize that students may differ in how they want to address this issue, and we seek to provide a wide array of reporting options.

Please check the website for information and reporting in regards to mistreatment vs. suboptimal learning. [http://www.ucdenver.edu/academics/colleges/medicalschool/facultyAffairs/Professionalism/Pages/DefinitionsExamples.aspx](http://www.ucdenver.edu/academics/colleges/medicalschool/facultyAffairs/Professionalism/Pages/DefinitionsExamples.aspx)

### Communication

**Email:** MSK coordinators and/or block directors will use email as the primary communication method. Students are expected to use their official university email while on the MSK block. Students may receive phone calls to their SOM registered numbers in the case of urgent or student specific updates. Students are expected to check their phone and email every 2-3 hours while in clinical or didactic sessions. MSK coordinators will email updates regarding university holidays or inclement weather closings. Students should email MSK coordinators with
non-urgent questions. All urgent issues/questions should be conveyed to MSK coordinators via phone or MSK pager (see page 1 of syllabus for contact information).

**Canvas:** Canvas will not be checked for course communication and as such should not be utilized by students for communication purposes.

**Laptop and Mobile Device Usage:** Use of phone and laptops while in clinical and didactic sessions should meet session goals and course expectations. Personal use of laptops and phones while engaged in clinical and didactic sessions is not permitted.

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**Attire**

Professional dress is required at all times. Shorts, jeans or flip-flops are not permitted. Likewise, all clothing should be clean and fit properly. **Students are only permitted to wear scrubs in the OR or Spine Clinic. Students may be asked to change if they arrive for clinic or didactic sessions in scrubs.** While on the MSK block male students should be prepared to wear a tie when asked. All students should have a clean white coat ready for wear.

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**Hospital responsibilities**

Students are expected to have completed their systems access paperwork for all four clinical affiliates (UCH, VA, DH & CHCO). Students may be asked to return badges for DH or CHCO at the end of the MSK block. Timely response to site coordinators and clinical teams is expected and should meet the previously described standards of professionalism.

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**FAQs of general information and resources**

- Course texts are optimally returned following the second MSK Small Group & PE Session. Text books must be returned by the last day of the block.

- We are not able to integrate site or preceptor preferences.

- See “Check-In Instructions” document for site specify parking and location details.

- Students will be automatically matched with faculty in NI, no additional steps on the part of the student are required.

- Students do not attend their foundations clinic during this two-week block.