

Scientific Foundations Committee

November 10, 2017 (7:30 – 9:00 am)

Mayo B-646

Meeting Minutes

2016-2017 Scientific Foundations Committee Members and Attendance										
Member & Course	8/1 1	9/ 8	10/ 13	11/10						
Lisa Anderson	x	x	x	x						
David Baldes: INMD 6815 Human Behavior	-									
Matthew Chafee: INMD 6813 Neuroscience	x		x	x						
H. Brent Clark: INMD 6823 HHD – N, P, & O ²	x	x	x							
Greg Filice: MS 2 ID Thread	x		x							
Alicia Harrison: INMD 6822 HHD – R, D, & O		x								
Betsy Hirsch: INMD 6802 Science of Medical Practice			x							
Steve Katz: INMD 6814 Physiology	x	x	x	x						
Bob Kempainen: INMD 6808 HHD – C & R		x	x	x						
Eric Leppink: MS1 Student Representative	-		x	x						
Brian Muthyala: INMD 6803/6804/6805 ECM 1, ECM 2, ECM 3A				x						
Kaz Nelson: Chair (INMD 6823 HHD – N, P, & O ²)	x		x	x						
Catherine Niewoehner: INMD 6810 HHD – R & E-R		x	x	x						
James Nixon: INMD 6803/6805/6806/6807 ECM 1, ECM 3A/B/C				x						
Jan Norrander: INMD 6821 Human Histology				x						
Deborah Powell: INMD 6817 Principles of Pathology, MS2 Pathology Thread	x		x	x						
Michael Ross: INMD 6816 Human Sexuality										
Michel Sanders: INMD 6802 Science of Medical Practice	x	x								
David Sandness: MS2 Student Representative	-		x							
David Satin: INMD 6803/6804/6805/6806/6807 ECM 1, ECM 2, ECM 3										
Kate Shafto: FCT Course Director		x	x	x						
Peter Southern: INMD 6812 Micro & Immunology	x	x	x	x						
Heather Thompson Buum: INMD 6811 HHD – GI & Heme			x	x						
Tony Weinhaus: INMD 6820 Medical Gross Anatomy & Embryology		x		x						
Kevin Wickman: INMD 6818 Principles of Pharmacology	x	x	x	x						
OTHER REGULAR ATTENDEES										
Austin Calhoun: Chief of Staff, Medical Education		x								
Bob Englander: Associate Dean for UME	x	x	x	x						
Kelaine Haas: Dir of Integrated Curriculum-Foundational Sciences	x	x	x	x						
Mark Hilliard: Academic Technologist			x	x						
Addy Irvine: Academic Advisor			x	x						
Chelsey Jernberg: Curric and Evaluation Data Manager		x	x	x						
Michael Kim: Assistant Dean for Student Affairs		x	x	x						
Jamie Larson: Foundational Curriculum Manager	x	x	x	x						
Anne Pereira: Assistant Dean for Curriculum	x	x		x						
Christina Petersen: Ed. Program Specialist, Center for Educational Innovation			x	x						
Heather Peterson: Medical School Registrar										
Mary Ramey: MS2 Lab Med/Path Coordinator										
Mark Rosenberg: Vice Dean for Medical Education	x	x	x							
Scott Slattery: Director of Learner Development	x	x	x	x						

Suzanne van den Hoogenhof: Dir of Op, Assessment & Evaluation	x		x	x							
Claudio Violato: Assistant Dean for Assessment & Evaluation		x	x	x							

OTHER ATTENDEES

Jeff Wallner

MINUTES

Dr. Niewoehner voted to approve the 9/8 meeting minutes. Dr. Chafee seconded. The minutes were approved unanimously.

Dr. Niewoehner voted to approve the 10/13 meeting minutes. Dr. Southern seconded. The minutes were approved unanimously.

UPDATES/ANNOUNCEMENTS

ACR Sign-up

Kaz Nelson

Dr. Nelson invited all course directors to sign up to present their ACR for the year. A sign-up sheet circulated.

HHD5 Planning Meeting Debrief

Kaz Nelson

Dr. Nelson reviewed the structure of the new HHD 5 course, which will now include Otol and Ophth disciplines. The new course will include 7 contact hours per discipline, a reduction of almost 50% of the number of contact hours the course (formerly HHD 3) included in prior years. Added space for “bonus time” is included in addition to the 7 hour limit, which are sessions integrated with multiple disciplines (panels, small group, etc.).

Student Compliance Requirements Policy

Heather Peterson

Policy attached.

Discipline Experts List

Kelaine Haas

Dr. Kelaine Haas presented a list of topic experts from both campuses that was compiled by Duluth faculty to facilitate connections and planning. The list is attached.

Student Council Update

Eric and David

MS 1 student representative Eric Leppink noted that Student Council is currently working to post the charter, update resources, and standardizing procedures. Mr. Leppink noted that morale across the MS1 class seems okay.

Other notes:

Two students will take the legacy HHD 5 (INMD 6819) course fall 2017, while their peers take the new HHD 3 (INMD 6822) course. These two students passed the legacy HHD3 (INMD 6809) course in 2016 but not legacy HHD 5 (INMD 6819).

Dr. Englander announced that given the revised Undergraduate Medical Education Strategic Plan, he plans to meet with all department and clinical chairs to discuss the direction the curriculum is heading. Specifically, he will discuss the focus on evidence based education and using the science of learning, fostering relationships (longitudinal experiences in FCT and ECM), and standardize outcomes/individual pathways.

ANNUAL COURSE REPORTS

HHD1 - Cadio and Respiratory

Bob Kempainen

Dr. Kempainen reported that student evaluations look similar to scores in past years. He noted that as in past years, students requested more “non-graded assessment”. The overall evaluation score was 4.5/5. In an effort to incorporate more interactive learning, the course incorporated fewer lectures and included a flipped classroom, case-based session. Dr. Kempainen noted that feedback on the case-based session was mildly rated by students (3.6/5), and that the amount of content delivered during the session will need to be reduced in future iterations. The committee suggested employing TAs in the session in the future. Dr. Englander suggested incorporating 4th year teaching electives into the curriculum to build a TA pool for such sessions. The complete HHD1 ACR is included.

DISCUSSION

Active Learning Followup

Christina Petersen

Dr. Petersen shared [Instructional Resources from the Med Ed website](#) and presented a think-pair-share activity. Dr. Petersen invited course directors to use the [Center for Educational Innovation](#) for instructional resources and to schedule a consultation with a specialist.

Governance Structure/LCME Requirements Bob Englander

- Ed Council
- Standard 1 in the LCME standards around governance requires that we have a set governance structure and that everyone is aware of the structure.
- The Ed Council has been tasked with determining educational committee terms, charges, whether or not to appoint alternates for members, and standards around attendance.
- The committee suggested that the chair have 2 year terms, that all voting members designate an alternative, that a quorum is 51%, and that attendance to meetings be 75%.
- Attendance Policy - was not addressed.

Future Agenda Items

- Formative Assessments
- Drugs and Disease Database
- Simulation Lab

Other

- Suggestion to discuss the need for assistant course directors at future meeting.



Discipline, Systems, Phys Tasks	TC Faculty and Contact Email	Duluth Faculty and Contact Email
Anatomy	Tony Weinhaus weinh001@umn.edu	Arlen Severson/Terri Ach aseverso@d.umn.edu tach@d.umn.edu
Bone, Joint, Connective Tissue (BJCT)	Alicia Harrison harri736@umn.edu	Robin Michaels rmichael@d.umn.edu
Biochemistry, Molecular Biology, Biophysics	Michel Sanders sande001@umn.edu	Andy Skildum askildum@d.umn.edu
Cardiovascular	Bob Kempainen kempa001@umn.edu	Kendra Nordgren knordgre@d.umn.edu
Clinical Skills	Brian Muthyala muth0011@umn.edu	Ruth Westra rwestra@d.umn.edu
Dermatology	Noah Goldfarb gold0414@umn.edu	Kevin Diebel kwdiebel@d.umn.edu
Ear	Christopher Hilton christopher.w.hilton@healthpartners.com	Janet Fitzakerley jfitzake@d.umn.edu
Embryology	Toni Weinhaus weinh001@umn.edu	Arlen Severson aseverso@d.umn.edu
Endo/Repro	Catherine Niewoehner niewo002@umn.edu	Terri Rose-Hellekant trosehel@d.umn.edu
Eye	Sandra Rocio Montezuma smontezu@umn.edu	Pedro Fernandez-Funez pfernand@d.umn.edu
Genetics	Betsy Hirsch Hirsc003@umn.edu	Lynne Bemis lbemis@d.umn.edu
GI	Heather Thompson-Buum thomp057@umn.edu	Andy Skildum askildum@d.umn.edu
Hematology	Heather Thompson-Buum thomp057@umn.edu	Glenn Simmons gsimmons@d.umn.edu
Histology	Jan Norander norra001@umn.edu	Aubie Shaw ashaw@d.umn.edu
Human Behavior	David Baldes bald0116@umn.edu	Michele Statz mstatz@d.umn.edu
Human Sexuality	Michael Ross mwross@umn.edu	Michele Statz mstatz@d.umn.edu
Infectious Diseases	Greg Filice filic001@umn.edu	Kevin Diebel kwdiebel@d.umn.edu
Lab Medicine	Tony Kileen kille001@umn.edu	Carl McGary gmcgary@d.umn.edu
Microbiology/Immunology	Peter Southern South003@umn.edu	Kevin Diebel kwdiebel@d.umn.edu



Neuroscience	Matt Chaffee chafe001@umn.edu	Pedro Fernandez-Funez pfernand@d.umn.edu
Nutrition	Michel Sanders Sande001@umn.edu	Andy Skildum askildum@d.umn.edu
Pathology	Deb Powell dpowell@umn.edu	Carl McGary gmcgary@d.umn.edu
Pharmacology	Kevin Wickman wickm002@umn.edu	Jean Regal jregal@d.umn.edu Janet Fitzakerley jfitzake@d.umn.edu
Physiology	Steve Katz katzx001@umn.edu	George Trachte gtracht1@d.umn.edu
Psychiatry	Kaz Nelson kjnelson@umn.edu	Michele Statz mstatz@d.umn.edu
Renal	Catherine Niewoehner Niewo002@umn.edu	Alan Johns ajohns1@d.umn.edu
Respiratory	Bob Kempainen kempa001@umn.edu	George Trachte gtracht1@d.umn.edu
Society/Ethics/Process of Care	David Satin Sati0003@umn.edu James Nixon Nixon007@umn.edu	Michele Statz mstatz@d.umn.edu Cathy McCarty cathy@d.umn.edu Jim Boulger jboulger@d.umn.edu

1-MK: Applying Foundational Science Concepts

1-PC: Diagnosis 1=Physician Task

1-PC: Management

1-PBL: Evidence-Based Medicine

2-Disciplines

2-Behavioral Sciences

2-Biochemistry

2-Genetics

2-Gross Anatomy & Embryology

2-Histology & Cell Biology

2-Microbiology & Immunology

2-Nutrition

2-Pathology

2-Pharmacology

2-Physiology

3-General Principles

3-Immune System

3-Blood & Lymphoreticular System

3-Behavioral Health & Nervous Systems/Special Senses

3-Musculoskeletal, Skin, & Subcutaneous Tissue

3-Cardiovascular System

3-Respiratory System

3-Gastrointestinal System

3-Renal/Urinary System

3-Reproductive System

3-Endocrine System

3-Multisystem Processes & Disorders

2017 NBME Step 1 Reporting Rubric:

Student Compliance Requirements: Twin Cities, Duluth

FULL POLICY CONTENTS

Policy Contents

- Policy Statement
- Reason for Policy
- Procedures
- Definition
- Related Information
- History

Effective Date:

Last Update: October 2017

Responsible Officer:

Associate Dean for Undergraduate Medical Education

Policy Owner:

Office of Undergraduate Medical Education

Policy Contacts:

Associate Dean of Student Affairs & Admissions (DL)
Medical School Registrar (TC)

Policy Statement

All students are required to comply with health requirements to continue in the medical school program and remain in good standing. It is the student's responsibility to maintain compliance with all requirements throughout their medical education (including those required and monitored by individual sites not listed in this policy). The required compliance areas are charted below.

Reason for Policy

Complying with the health requirements protects patients, students, and colleagues and satisfies affiliation agreements.

Procedure

In order to participate in educational activities (e.g. ECM, preceptorships, clerkships, volunteer) all medical students must meet the Medical Schools', affiliated hospitals', and clinical sites' compliance requirements. In order to maintain status as a student in good standing all enrolled medical students must maintain compliance in the areas listed in the chart below (including students enrolled in MSTP or on approved leave of absence).

Students will first be informed of compliance requirements after they are admitted to the medical school program with follow-up emails sent to their U of M email address. All students (Twin Cities and

Duluth campuses) must be compliant with all requirements prior to the start of MS1 fall semester with the exception of the MN State Background Study, due by October 1st of the MS1 fall semester, and Basic Life Support, due during MS1 spring semester.

Students who are out of compliance with requirements are not able to continue with their medical education and related volunteer activities. To ensure that all students are in compliance and able to participate in educational activities, the Medical School Registrar will monitor compliance and notify students via their U of M email address when they need to update their status. Students who do not respond to notification of noncompliance are removed from enrolled clinical course work until they have updated their status appropriately or they are not allowed to enroll in future semesters. This may result in extending their program if clinical course work needs to be dropped and rescheduled which may also impact financial aid and health insurance eligibility.

Compliance Requirements Chart

Compliance Requirements	Frequency	Delivery
Basic Life Support	Every 2 years – First training starts spring semester of MS1. Second training starts fall semester MS3.	In-person
Bloodborne Pathogens	Once – Prior to MS1 fall semester	Online
Immunization/Tuberculosis		
Hepatitis B, MMR, Varicella	Once – Prior to MS1 fall semester	In-person
Tuberculosis	Renew annually – Prior to each fall semester	In-person
Tetanus	Renew upon expiration (every ten years) – Prior to MS1 fall semester	In-person
Influenza Vaccine	Annually – After September 1st but before November 15th	In-person
MN Background Study	Once – By October 1st of MS1 fall semester	Online & In-person
National Background Study	TC: Once – Dependent on affiliated site Duluth: Once – Prior to MS1 fall semester	Online
Privacy & Security	Once – Prior to MS1 fall semester	Online
Respirator Information (Mask fit)	TC: Once – During MS1 spring semester Duluth: Once – During MS2 spring semester	In-person

Definitions

Related Information

Student Compliance Requirements website

History

Amended:

Last Updated: October 2017

Effective:

Approval:

UME Operations Team on – October 3, 2017

Scientific Foundations Committee on – November 10, 2017

Clinical Education Committee on – November 3, 2017

CUMED Committee on – N/A

Education Council on –

Discussion:

UME Operations Team on – October 3, 2017

Scientific Foundations Committee on – November 10, 2017

Clinical Education Committee on – November 3, 2017

CUMED Committee on – N/A

Education Council on – *December 19th agenda request*

HHD1 Cards & Respiratory 2017

SFC Meeting

Course: INMD 6808 - 2017-2018 HHD1: Cardio & Resp	Department: INMD
Director(s): Robert Kempainen	Responses / Expected: 126 / 159 (79.25%)

Basic Science Core Rating Items		INMD 6808						
		Responses					Course	
		SD	D	N	A	SA	N	Mean
Q1	The course objectives were made clear to me.	1	0	5	70	50	126	4.3
Q2	The assignments planned for independent learning time facilitated my learning of the course material.	3	9	19	67	28	126	3.9
Q3	There were adequate opportunities for non-graded self-assessments (i.e. quizzes, discussion questions, practice or review questions).	14	26	25	42	19	126	3.2
Q4	The resources provided for the class were useful in learning the material: (i.e. recommended readings, course packet, BlackBag site)	2	3	17	76	28	126	4.0
Q5	There was close agreement between the stated course and session objectives and the information taught.	0	1	10	78	37	126	4.2
Q6	The graded assessment(s) appropriately tested the course objectives.	1	4	12	69	40	126	4.1
Q7	Overall, I have acquired an understanding of the stated course objectives.	0	2	5	80	39	126	4.2
Q8	The course content was successful in integrating basic science knowledge and clinical practice.	1	0	3	69	53	126	4.4
Q9	Overall, I have found this course to be valuable.	0	1	3	60	62	126	4.5

Responses: [SD] Strongly Disagree=1 [D] Disagree=2 [N] Neutral=3 [A] Agree=4 [SA] Strongly Agree=5

Basic Science Core Rating Items		INMD 6808						
		Responses					Course	
		SD	D	N	A	SA	N	Mean
Overall Questions Group 2								
Q10	Public Health topics were integrated within the course.	0	15	27	69	15	126	3.7

Responses: [SD] Strongly Disagree=1 [D] Disagree=2 [N] Neutral=3 [A] Agree=4 [SA] Strongly Agree=5

Changes in 2017

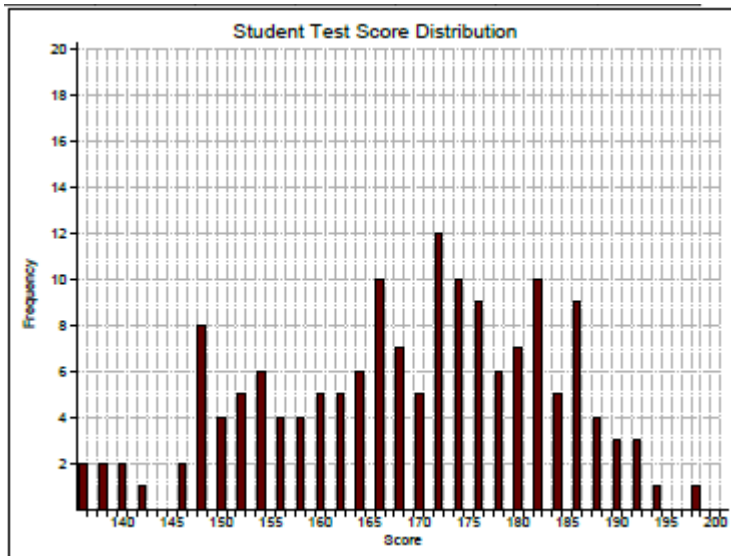
- 1) Reduction in large group lectures
 - a. 3 Respiratory Pathophys lectures eliminated
 - b. 1 Cards Pathophys lecture eliminated
 - c. 1 optional Resp PP lecture, 1 Pharm review eliminated
 - d. Overall no significant change in ratings of lecturers – a few struggled
- 2) Use of Qualtrics for Question Data bank
 - a. Consolidates practice questions in one spot
 - b. Cumbersome to move between questions

- 3) Addition of 1 “flipped classroom” Resp PP session
 - a. Case-based, 25 – 30 students per room working in groups of 5 with 1 faculty/room
 - b. Need to cut content by about 50% (ran out of time)
 - c. Rated 3.6 out of 5
 - d. Getting rooms challenging

Student Performance

High scores on Pathology Lab Practical – only 1 student with score < 70%

Written Exam –



Mean 84.5% correct, SD 14

4 Students < 70% but all did well on Path Lab exam and passed the course

Areas of Opportunity/Concern

- 1) Redundancy between Cards Pathology and Pathophysiology
 - a. 2nd most common concern (not enough practice questions being #1)
- 2) Redundancy between ID thread and Microbiology, ID and Endocarditis
- 3) Drop off in Cards PP Small Group ratings (4.3 in 2016 → 3.8 in 2017) and consistently low ratings of ID PP Small Group (3.1)
 - a. Tutor recruitment for Cards challenging, eliminate some content?
 - b. Time for a different model?
- 4) Communication: Increasingly complex curriculum logistics, too many announcements
- 5) Desire for more practice questions
 - a. Options besides Qualtrics for viewing
 - b. Providing more explanations for questions
 - c. Ensuring quality of practice questions
 - d. More of them?
- 6) New director for Cards PP starting next fall (Wayne Adkisson)