

Scientific Foundations Committee

May 12, 2017

7:30 – 9:00 am

Mayo B-646

Minutes

| 2016-2017 Scientific Foundations Committee Members and Attendance | | | | | | | | | | | | |
|--|----------------|-----|------|-----------|------|------|------|------|-----|------|-----|-----|
| Member & Course | 8/12 | 9/9 | 10/7 | 11/1 1 | 12/9 | 1/13 | 2/10 | 3/10 | 4/7 | 5/12 | 6/9 | 7/7 |
| Steve Katz: Chair (INMD 6814 Physiology) | x | x | x | x | x | x | x | | x | x | | |
| David Baldes: INMD 6815 Human Behavior | | | | | | | | | | | | |
| Matthew Chafee: INMD 6813 Neuroscience | x | | x | | x | x | x | x | x | | | |
| H. Brent Clark: INMD 6819 HHD – N & P | x | x | x | x | x | x | x | x | x | x | | |
| Greg Filice: MS 2 ID Thread | x | x | | x | | x | x | x | | x | | |
| Bob Kempainen: INMD 6808 HHD – C & R | x | | | | x | x | | | | x | | |
| Alicia Harrison: INMD 6809 HHD – R, D, & O ³ | - | - | - | - | - | x | | x | | | | |
| Betsy Hirsch: INMD 6802 Science of Medical Practice | - | - | - | - | - | - | x | | | | | |
| Brian Muthyala: INMD 6803/6804/6805 ECM 1, ECM 2, ECM 3A | | | | x | | | | x | x | | | |
| Kaz Nelson: INMD 6819 HHD – N & P | | | x | x | x | x | | | | x | | |
| Catherine Niewoehner: INMD 6810 HHD – R & E-R | x | x | x | | x | x | x | x | x | x | | |
| James Nixon: INMD 6803/6805/6806/6807 ECM 1, ECM 3A/B/C | | x | | | | | | | | | | |
| Jan Norrander: INMD 6821 Human Histology | x | x | | | | | | x | | x | | |
| Deborah Powell: INMD 6817 Principles of Pathology, MS2 Pathology Thread | | x | | x | x | | x | x | x | x | | |
| Michael Ross: INMD 6816 Human Sexuality | | | | | | | | | | | | |
| Michel Sanders: INMD 6802 Science of Medical Practice | | | x | | | x | x | x | x | | | |
| David Satin: INMD 6803/6804/6805/6806/6807 ECM 1, ECM 2, ECM 3 | | | | | | | | | | | | |
| Kate Shafto: FCT Course Director | - | - | - | - | - | - | - | - | - | x | | |
| Peter Southern: INMD 6812 Microbiology & Immunology | x | x | x | x | x | x | x | x | x | x | | |
| Heather Thompson Buum: INMD 6811 HHD – GI & Heme | x | x | x | | x | | x | x | | | | |
| Tony Weinhaus: INMD 6820 Medical Gross Anatomy & Embryology | x | x | x | | | x | | x | | x | | |
| Kevin Wickman: INMD 6818 Principles of Pharmacology | x | x | x | x | x | x | x | x | x | x | | |
| Blake Stagg: MS2 Student Representative | | x | | x | x | x | x | x | | | | |
| Mehdi Mulla: MS1 Student Representative | - | - | - | | x | x | | x | | | | |
| OTHER REGULAR ATTENDEES | | | | | | | | | | | | |
| Mark Rosenberg: Vice Dean for Medical Education | | x | x | | x | x | | | | | | |
| Bob Englander: Associate Dean for UME | x | | x | | x | x | | x | x | x | | |
| Anne Pereira: Assistant Dean for Curriculum | x-via phone | x | x | | x | x | x | x | x | x | | |
| Michael Kim: Assistant Dean for Student Affairs | | x | x | x | x | x | x | x | | | | |
| Suzanne van den Hoogenhof: Interim Assistant Dean for Assessment & Evaluation | x | x | x | | | | x | x | x | x | | |
| Claudio Violato: Assistant Dean for Assessment & Evaluation | - | - | - | - | - | - | - | - | - | x | | |
| Kelaine Haas: Director of Integrated Curriculum-Foundational Sciences | - | - | - | - | - | - | x | x | x | x | | |
| Austin Calhoun: Chief of Staff, Medical Education | x | x | | | | x | | | x | x | | |
| Scott Slattery: Director of Learner Development | | x | x | x | | x | | | x | x | | |
| Heather Peterson: Medical School Registrar | | x | | | x | x | x | x | x | x | | |
| Mary Ramey: MS2 Lab Med/Path Coordinator | x | x | x | x | | x | x | x | | | | |

Minutes from the April 14, 2017 meeting are approved.

Student issues: none

Annual Course Review

Medical Gross Anatomy & Embryology (INMD 6820) - Tony Weinhaus

See attached ACR for details

Including:

- ❖ *Learning outcomes/course objectives*
- ❖ *Evidence of achieved outcomes*
- ❖ *What is working well*
- ❖ *Areas of concern*
- ❖ *Progress on changes from the previous ACR*
- ❖ *Intended changes for next academic year*

This summer a student will assist in upgrading 6 of the 36 lecture videos. The edit history is below:

- ❖ 2014: All lectures revised in some way
- ❖ 2015: Audio of 36 lectures was kept, slides were revised
- ❖ 2016: 4 lectures re-recorded

Moving towards computer based exams (ExamSoft)

Adam Maier & Suzanne van den Hoogenhof

See attached powerpoint for details

Examsoft is used by the University of Minnesota Law School, Dental School (new), and University of Minnesota Duluth Medical School (2014)

Possible benefits:

- ❖ Statistics and mapping in Blackbag/student progress in each individual course
- ❖ Becoming comfortable with computer based exams (Step 1)
- ❖ Honor code violations cease
- ❖ Data driven instructions
- ❖ Flexible exam scheduling
- ❖ Lockdown browser
- ❖ Quicker feedback loop
- ❖ Reflection on quality of question writing

Concerns raised:

- ❖ Wi-fi & computer functionality: The exam is downloaded and locks the computer down/no wi-fi is needed. All functions are locked including print screen.
- ❖ Powering devices: Students will need to be prepared by powering devices. Battery packs may be

available.

- ❖ Exam interactivity: Ability to highlight, strikethrough, etc. (Students in Duluth are allowed a note taking paper, which they are required to turn in).
- ❖ Training different types of users
- ❖ Cheating (Can randomize questions for each user - used by Duluth)
- ❖ Ease of switching between questions: a side-bar is available and examsoft allows a delayed review, which keeps questions in the order answered
- ❖ Cell phone use during review sessions to allow students to write an e-mail
- ❖ Lab exams
- ❖ Short answer questions - This is an option, the exam would need to be graded at a later time.

Duluth high stakes exams are in a proctored room together and students are sent to IT if there is an issue. Immediately after hitting the submit button, the student receives their result. Review sessions allow students to access the questions again (within 24 hours).

Future Agenda Items

Suggestions from Course Directors for future SFC meeting topics:

- Systems approach to improving MS1 & MS2 through course standardization
- Cutting lectures by 10%
- Future re-aligning of academic calendars (change semester start/end dates)
- ExamSoft & BlackBag assessments
- ILT feedback
- Copyrights & resources (focused on what we *can* do)
- More BlackBag search examples, Gradebook, downloading, calendar, checking feedback cards
- Survey students about type of practice questions/formative
- New promotion guidelines for teachers (non-tenure track)
- Ongoing Diversity & Inclusion training at joint SFC/CEC/CUMED
- How might Dr. Christina Petersen's work in the Center for Educational Innovation support the work of the years 1 and 2 course directors?
- Demonstration of MindMup
- One Button studio
- Should we eliminate failures showing on transcripts?
- Faculty burnout, class attendance, and online streaming