

ACMS Undergraduate Committee Meeting, January 17, 2019

1. Robert's new course (See document)
2. Sasha and Michael's changes to ACMS 20550/20750: (See documents)

We propose changing the syllabus of Methods I and II by moving Fourier series to Methods II and cutting one of the topics in Methods II :

I used the book by Boas as the course text, but mostly told the students to follow the procedures from my lecture notes for the multivariable calculus and linear algebra, rather than trying to follow the text (my multivariable approach is pretty similar to standard approaches, like in Stewart's text or Briggs and Cochran's, if I remember correctly). I dislike the Boas text, though. I think the text for Methods 1 needs to be replaced eventually, and I had intended to do a bit of searching for a suitable replacement last year for both Methods 1 and 2 simultaneously, but didn't get very far. I will probably try to spend a bit more time looking for a replacement sometime this semester if you don't have a particular alternative suggestion in mind.

Time is definitely a tremendous concern for me for Methods 1. I did manage to cover Fourier series last semester, but not in as much depth as I would have liked (and with such little time remaining that I didn't think it fair to test it). The only way I managed to get through that much material was having two sections with combined exams outside of the regular class meeting time, giving me more time for lecture. I think moving Fourier series to Methods 2, just prior to using them for solving differential equations, would be pretty reasonable. I also think Methods 2 has too much material as well, and cutting a topic or two wouldn't hurt much. Some of the topics in that course can be cut without affecting other material, so cutting something like the calculus of variations material or the complex variables material (much as I would miss it, although there is a separate course dedicated to it) seems reasonable to me.

3. Updated Data Analytics minor proposal (See document)
4. Miscellaneous

- (i) Preliminary thoughts about adding ACMS 20620 as a prerequisite to ACMS 30600
- (ii) Greatest need for new data analytics elective? SQL?
- (iii) (Local) alumni panel for Spring 2019?