

C5.9 - Mathematical Mechanical Biology Important Info

1 Course structure

This course consists of 3 modules: Biofilaments, Biomembranes, and BioGrowth. The types lecture notes are divided into 3 distinct pdfs for each module.

1.1 Problem sheets

The problems for each module are included at the end of each section of the typed notes. However, there are 4 sheets and only 3 modules. If you open the problem sheet files, at the top you will see which problems you are expected to work on and hand-in for each problem sheet. You will also see some guidance/hints on many of the problems.

2 Video structure

In a normal year, the 16 lecture hours would divide as the first 5 lectures on Biofilaments, the next 5 lectures on Biomembranes, and the final 6 lectures on Biogrowth. This year 2 videos will roughly equate to 1 lecture (though not always exactly as occasionally I might add a short video for clarification or for a more natural division by topic). Thus, to follow a “normal schedule”, you should aim to watch about 4 videos each week. More specifically, I recommend the following video schedule (I will continue to update this as more videos are recorded)

- Week 1: Biofilament Videos 1 - 5
- Week 2: Biofilament Videos 6 - 9
- Week 3: Biofilament Videos 10 - 11, Biomembrane Videos 1 - 2
- Week 4: Biomembrane Videos 3 - 7
- Week 5: Biomembrane Videos 8 - 10
- Week 6: Biogrowth Videos 1 - 4
- Week 7: Biogrowth Videos 5 - 7
- Week 8: Biogrowth Videos 8 - 10

Note also that I will upload the notes I write on in the lecture videos and post these on this course page.