

Updates to DPT for Data Science (Graduate Apprenticeship) BSc

When the pre-hons curriculum changes and 2-yr plans were approved in December, I included DPTs for ug1 and ug2 of all Informatics Single and Joint degrees that existed at the time I started the curriculum review. However, in Sept we started admitting students onto a new degree, the Data Science Graduate Apprenticeship. I forgot to include this new degree in my plans, so didn't propose a plan for transitioning it to the new pre-hons curriculum and have only just noticed this error.

This proposal tidies up the situation for the coming year. The plans for the following year are not completely straightforward, and we will need to consult with maths, so I'm not including that yet.

For UG1, we need to replace Inf1-DA and Inf1-OP by the new 20pt Inf1b (as we have with all other degrees).

For UG2, The current DPT looks like this:

Sem1	Sem2
Inf2a (20)	Inf2b (20)
Inf2c-SE (10)	Inf2d (20)
Probability (10)	Statistics (10)
Several Variable Calculus (20)	Computing and Numerics (10)

For 2019-20, Inf2a will stop running, Inf2-IADS (Intro to Algorithms and Data Structures) will start running, and Inf2b will reduce to 10pts (Learning only).

I propose updating the DPT as follows:

Sem1	Sem2
Facets of Mathematics (10)*	Inf2b (10)
Inf2c-SE (10)	Inf2d (20)
Probability (10)	Statistics (10)
Several Variable Calculus (20)	Computing and Numerics (10)
Inf2-Intro to Algorithms and Data Structures (20, full year)	

Notes:

*I consulted with Heather Yorston, who is our PT on this degree. She agrees this update is reasonable and also checked with Toby Bailey in Maths. He said adding Facets of Maths is ok although he suggested we consider the Physics course Programming and Data Analysis instead. Heather is consulting with physics but at the time of writing, I haven't got an update on this. If they do agree, we could put an option for *either* Facets *or* P&DA. I'm actually not really sure that P&DA makes sense as it may overlap too much with other courses they are doing (their maths courses should cover the data analysis, and many of their other courses cover introductory programming).

A related issue: Heather pointed out that Computing and Numerics may be too easy for these students (who already will have done programming) but as it's already in the DPT this is something for discussion for next year along with the further updates needed for the next phase of pre-hons course changes. In the meantime, some students may be given concessions to do something else.

As this DPT is only in interim state anyway, I think we should just accept the above proposal and revisit in more detail for AY 2020-21 when the Inf2 courses will hopefully be in final state.