

## Provisional timetable – Introduction to Infectious Disease Modelling and its Applications (online course)

All listed times are UK time.

Activity	Monday, 14 <sup>th</sup> June	Tuesday, 15 <sup>th</sup> June	Wednesday, 16 <sup>th</sup> June	Thursday, 17 <sup>th</sup> June	Friday, 18 <sup>th</sup> June
		9.00-9.30 Optional review	9.00-9.30 Optional review	9.00-9.30 Optional review	9.00-9.30 Optional review
	14.00-14.30 Welcome and introduction to the course	14.00-14.30 Review of S2	14.00-14.30 Review of S3	14.00-14.30 Review of S4:	14.00-14.30 Review of S6 and S7
	14.30-16.00 Live lecture with questions: S1. Introduction the epidemiology of infections	14.30-16.00: Guest lecture on the applications of modelling	14.30-16.00: Guest lecture on the applications of modelling	14.30-16.00: Guest lecture on the applications of modelling	14.30-16.00: Guest lecture on the applications of modelling
	17.00-17.30 Optional review	17.00-17.30 Optional review	17.00-17.30 Optional review	17.00-17.30 Optional review	17.00-17.30 Optional review
Self-study material for review on next day	S2. Basic methods for setting up models: difference equations	S3. Basic methods for setting up models: differential equations	S4. Natural dynamics of infections S5. Review of block 1	S6. Analysing seroprevalence data S7. Fitting models to data	S8. Contrasting the effects of rubella vaccination between high and low transmission settings S9. Simulating the effects of non-random mixing on transmission and control

Activity	Monday 21 <sup>st</sup> June	Tuesday 22 <sup>nd</sup> June	Wednesday 23 <sup>rd</sup> June	Thursday 24 <sup>th</sup> June	Friday 25 <sup>th</sup> June
	9.00-9.30 Optional review	9.00-9.30 Optional review	9.00-9.30 Optional review	9.00-9.30 Optional review	9.00-9.30 Optional review
	14.00-14.30 Review of S8&9:	14.00-14.30 Review of S10	14.00-14.30 Review of S11 & 12	14.00-15.30 Review of S14, S15	14.00-14.30 Review of S18, S19, S20
	14.30-16.00: Guest lecture on the applications of modelling	14.30-16.00: Guest lecture on the applications of modelling	14.30-16.00: Guest lecture on the applications of modelling	15.30-16.00 Live lecture with questions S16: Real-time modelling	14.30-15.30 Guest lecture on the applications of modelling
	17.00-17.30 Optional review	17.00-17.30 Optional review	17.00-17.30 Optional review	17.00-17.30 Optional review	15.30-16.00 Course farewell and end of course
Self-study material for review on next day	S10. Estimating basic reproduction numbers for non-randomly mixing populations S11. Review of block 2	S12. Stochastic modelling S13 Network modelling	S14: Economic evaluation of infectious disease interventions (lecture and practical)  S15: Fitting models to data II - numerical optimisation and sensitivity analysis	S17 STI modelling S18 TB modelling S19 Malaria modelling	