

Advanced Epidemiological Methods Course – Nov 18-21, 2025
Fletcher Wellness Hotel – Leiden, The Netherlands

Tuesday 18 November 2025

12.30-13.00	Coffee, lunch and welcome	
13.00-13.30	Introduction to the course (incl. short intro to DAGs)	Le Cessie
13.30-14.45	Causality, an introduction	Dekkers
14.45-15.00	Break	
15.00-16.30	Estimands & Target trial emulation – part 1	Dekkers
16.30-17.30	Estimands & Target trial emulation – part 2	Dekkers
18.00-19.00	Dinner	
19.00-20.30	Predictimands	Le Cessie

Wednesday 19 November 2025

8.30-9.00	Coffee and welcome	
9.00-10.00	Propensity scores: theory	Le Cessie
10.00-10.15	Break	
10.15-11.30	Propensity scores: exercises	Le Cessie
11.30-12.30	Inverse probability weighting	Fu
12.30-13.30	Lunch	
13.30-15.00	Cloning, censoring, weighting	Fu
15.00-15.15	Break	
15.15-16.15	Mediation analysis; theory	Le Cessie
16.15-17.00	Mediation analysis; exercises	Le Cessie
17.00-18.00	Negative controls	Dekkers
18.00-19.00	Dinner	
19.00-20.30	Time-dependent variables	Groenwold

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Thursday 20 November 2025

08.30-9.00	Coffee and welcome	
9.00-9.45	Immortal time bias; theory	Cannegieter
9.45-11.15	Immortal time bias; exercises	Cannegieter
11.15-11.30	Break	
11.30-12.30	Measurement error: theory	Groenwold
12.30-13.30	Lunch	
13.30-14.30	Measurement error: exercises	Groenwold
14.30-15.30	Missing data: theory	Le Cessie
15.30-15.45	Break	
15.45-17.30	Missing data: computer practical	Le Cessie
18.00-19.00	Dinner	
19.00-20.30	Quantitative bias analysis	Groenwold

Friday 21 November 2025

8.30-9.00	Coffee and welcome	
9.00-10.30	Infectious disease epidemiology – part 1	van den Hof
10.30-10.45	Break	
10.45-12.30	Infectious disease epidemiology – part 2	van den Hof
12.30-13.30	Lunch	
13.30-15.30	Instrumental variable & Mendelian randomisation	Rosendaal
15.30	Closing remarks & farewell	Le Cessie