**Course outline**

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| **Topic** | **Duration** | **End** |  |
| **Objective & Expectations** | 5 min | 0.05 | JJ |
| **Introduction** | 5 min | 0.10 | JJ |
| **(Basic) model taxonomy** | 8 min | 0.18 | JJ |
| **Simple Markov cohort model** | 25 min | 0.45 | JJ |
| ***Exercise 1: Simple Markov cohort model*** | *15 min*  *(10 min practice, 5 min answer)* | *1.00* | JJ |
| **Simple Markov cohort model – Incorporating PSA** | 25 min | 1.25 | DI |
| ***Exercise 2: Incorporating PSA*** | *10 min*  *(5 min practice, 5 min answer)* | *1.35* | *DI* |
| **Cost-effectiveness analysis** | 15 min | 1.50 | DI |
| ***Demonstration*** | *10 min* | *2.00* | DI |
| **Day 2** |  |  |  |
| **Simple Markov cohort model with hesim** | 25 min | 0.25 | JJ |
| ***Exercise 3: Simple Markov cohort model with hesim*** | *15 min*  *(10 min practice, 5* min answer*)* | *0.40* | *JJ* |
| **Semi-Markov multi-state model** | 25 min | 1.05 | DI |
| ***Exercise 4: Semi-Markov multi-state model*** | *10 min practice* | *1.15* | *DI* |
| **Partitioned survival model** | 20 min | 1.35 | DI |
| ***Exercise 5: Partitioned survival model*** | *10 min practice* | *1.45* | *DI* |
| **Summary & Questions** | 15 min | 2.00 | JJ |