# COURSE DETAIL

| STATISTICS A |
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| **Country**<br>Denmark |
| **Host Institution**<br>University of Copenhagen |
| **Program(s)**<br>University of Copenhagen |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Statistics |
| **UCEAP Course Number**<br>123 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>STATISTICS A |
| **UCEAP Transcript Title**<br>STATISTICS |
| **UCEAP Quarter Units**<br>6.00 |
| **UCEAP Semester Units**<br>4.00 |

**Course Description**

This course covers conditional distributions based on densities, including conditioning in the Gaussian distribution; hierarchical/mixed-effects models (theoretical and practical aspects); Bayesian analyses and computations, such as prior and posterior distributions, credible intervals, MCMC sampling; and software for mixed-effects models and Bayesian computations. This is an advanced course in statistics; it is not an introductory course. P rerequisites include probability distributions with densities, linear normal models, logistic and Poisson regression, R usage.

**Language(s) of Instruction**
English

**Host Institution Course Number**
NMAK20003U

**Host Institution Course Title**
STATISTICS A

**Host Institution Course Details**
https://kurser.ku.dk/course/nmak20003u/2024-2025

**Host Institution Campus**

**Host Institution Faculty**
Science

**Host Institution Degree**
Master

**Host Institution Department**
Mathematical Sciences

**Course Last Reviewed**
2024-2025

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