



## Applied Statistics for Researchers and Developers

E-learning course, February 17 – May 14, 2010

Are you regularly coming across statistical assessments in your work?  
Do you want to learn more? – This course may help you

### E-learning course in statistics?

Internet-based teaching where you decide the time and place!  
Where communication and interaction between teachers and co-participants  
in an informal tone are the basis for success!

### Short description of the course

The course covers 6 modules each running over 2 weeks. The expected work-load per module is up to 25 hours of work. The topics of the 6 modules are

- Introduction to R and descriptive statistics
- Populations, samples and statistical fundamentals; comparing groups
- Curve fitting and regression
- Factorial experiments
- Analysis of count data and binary data
- Models with random effects and repeated measures

A quick basic review of statistical concepts is included in the first two modules, but the course then quickly progresses to a more advanced and realistic complexity. With the help of the statistical software R, you try the various methods during examples, exercises and discussions. Examples are mainly from bio-sciences. This angle of applications also affects the content of the course.

### Starting level

You have had an introductory course in statistics and during your work you have frequently encountered statistical analysis and assessments such as p-values, confidence intervals, t-tests, standard errors. You sometimes carry out statistical analyses yourself, but may be uncomfortable with it and want to learn more.

### Learn more about the course

If you want learn more about course content, e-learning at Life and diploma, see Life's homepage [www.life.ku.dk](http://www.life.ku.dk) under Education/continuing education/short term courses or email the scientific secretariat [dittec@life.ku.dk](mailto:dittec@life.ku.dk).

### Registration and course fee

You sign up by mail to [dittec@life.ku.dk](mailto:dittec@life.ku.dk) at the latest on February 5, 2010. Course fee is 10000 DKK (Danish kroner). Number of participants is limited to 30. Selection among timely applications is mainly on a first-come first-serve basis, secondly on regional and occupational distribution of participants.

Course responsible is **Professor Ib Skovgaard**

Department of Basic Sciences and Environment, Faculty of Life Sciences, University of Copenhagen