

MATH0487-1 – ELEMENTS OF STATISTICS

Organization

Prof. Dr. Dr. K. Van Steen

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(September 2012)

Practical Organization of the Year

Date	8h15-10h15	10h30-12h30
18/09/2012	(Sepulchre)	Theory class 1
25/09/2012	(Sepulchre)	R class 1
02/10/2012	(Sepulchre)	Theory class 2
09/10/2012	(Sepulchre)	R class 2 + Home Work 1
16/10/2012	(Sepulchre)	Theory class 3
23/10/2012	Exercise class 1	(Sepulchre)
30/10/2012	(Visite Entreprise)	(Visite Entreprise)

Practical Organization of the Year

Date	8h15-10h15	10h30-12h30
06/11/2012	(Sepulchre)	(Sepulchre)
13/11/2012	(Sepulchre)	Theory class 4 + Home Work 2
20/11/2012	Exercise class 2	Theory class 5
27/11/2012	(Sepulchre)	(Sepulchre)
04/12/2012	(Sepulchre)	(Sepulchre)
11/12/2012	Exercise class 3	Theory class 6
18/12/2012	Exercise class 4	(Sepulchre)

Topics during the Year

T	P	Where	Main Themes	When	HW
x		B7a - 300	Setting the pace From Probability to Statistics Sampling to approximate the truth	18-sept	
	x		Introduction to R	25-sept	
x		B7a - 300	Sampling to approximate the truth Sampling Design Exploratory Data Analysis	2-oct	
	x		Sampling Distributions Exploratory Data Analysis in Practice	9-oct	x
x		B7a - 300	Estimation I	16-oct	
	x		Estimation in Practice	23-oct	

Location

Theory classes: 300 (B7a)

R classes: 300 (B7a)

Exercise classes:

Assistant	Huaux	Lousberg	Van Lishout
Room	R.52 (B4)	R.53 (B4)	A.1 (B7a)
Student Family Name	To be announced later	To be announced later	To be announced later

Evaluation

Home Work 1: $\pm 10\%$ of the final mark

Home Work 2: $\pm 15\%$ of the final mark

Exam - Theory: $\pm 30\%$ of the final mark

Exam - Exercises: $\pm 45\%$ of the final mark

The theory part of the exam will be a combination of multiple choice questions and open questions. The exercise part will be with closed books but you will receive a complete formulary.

Course notes

Theory (syllabus and slides)

<http://www.montefiore.ulg.ac.be/~kvansteen>

R classes and exercises

<http://www.montefiore.ulg.ac.be/~vanlshout>

Syllabus and Slides

Kristel Van Steen, PhD²

[Home](#)

[List of Publications](#)

[Curriculum Vitae Short](#)

[Curriculum Vitae Long](#)

[Consultancy Charter](#)

NEW [Foresting in Integromics Inference \(detailed reference list\)](#)

Links to affiliations

- [Ulg homepage](#)
- [Institut Montefiore](#)
- [Center for Medical Genetics Ghent \(at UG\)](#)
- [Center for Statistics \(at UHasselt\)](#)
- [Center for Human Genetics \(at K.U. Leuven\)](#)
- [Global Allergy and Asthma European Network](#)

Teaching 2012-2013

- [GBIO0009-1: Bioinformatique](#)
- [MATH0487-1: Elements of Statistics](#)

Teaching 2011-2012

- **NEW** [Maastricht EPID \(M2E2\)](#)
- [EPI0754-1: Genetic Epidemiology for Public Health](#)
- [Genetic Epidemiology \(Antwerp University\)](#)
- [MATH0008-2: Introduction to Probability and Statistics](#)
- [GBIO0009-1: Bioinformatique](#)

Contact Information

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Where Genetics, Bioinformatics and Public Health meet:

[Statistical Genetics Research Club](#)

Research Interests

Statistical Genetics

- Components analysis
- FBAT testing
- Gene-environment interactions
- Gene-gene interactions and interaction graphs
- Genetic heterogeneity
- Genetic imprinting
- Genome-wide association analysis
- Kinship and genomic background
- Multifactor dimensionality reduction strategies
- Multi-locus or combined group approaches

Exercises and Assignments



Home Page **Cours** Recherche Contact

François Van Lishout

Répétitions

[Introduction à R](#)

Cours théorique

[Site du professeur Van Steen](#)

[Chapitres 1, 2 et 3](#)

Elements de statistiques

Le premier cours théorique aura lieu le 18 septembre 2012 de 10h30 à 12h30 au 300 (B7a)

La répartition des étudiants pour les répétitions sera publiée sur cette page dès que nous disposerons de la liste complète des étudiants inscrits au cours.

Liens internes

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[Montefiore](#)

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[Statistical Genetics Research](#)

Liens externes

[Mes hobbies](#)

[Introduction à R](#)