MATH-236	Probability and statistics II					
	Goldstein Darlene					
Cursus		Sem.	Туре	Language of	English	

Chemistry	BA6	Opt.	teaching	
Life Sciences Engineering	BA4	Obl.	Credits Session	4 Summer
			Semester Exam Workload Weeks	Spring Written 120h 14

Summary

Linear statistical methods, analysis of experiments, logistic regression.

Content

- Simple linear regression, least squares estimation
- t-tests, confidence intervals
- Multiple regression
- Model selection
- Experimental designs
- One-way, two-way ANOVA
- Chi-square test
- Logistic regression

Learning Outcomes

By the end of the course, the student must be able to:

- Demonstrate understanding of course material
- Apply understanding to exercise/real life scenarios

Transversal skills

• Use a work methodology appropriate to the task.

Teaching methods

Lectures and group exercises

Expected student activities

Students should be prepared to participate in their learning by participating during lecture, asking questions, and contributing to exercise sessions

Assessment methods Written



4 weekly

2 weekly 2 weekly

Hours

Lecture

Exercises Number of positions

Supervision

Office hours	Yes
Assistants	Yes
Forum	Yes

Resources

Virtual desktop infrastructure (VDI) No

Bibliography Introduction à la statistique / Morgenthaler; possibly additional works (to be announced). Pre-recorded lectures (videos) will also be provided.

Ressources en bibliothèque

• Introduction à la statistique / Morgenthaler

Moodle Link

• https://go.epfl.ch/MATH-236