Faculty of Social Sciences
Study Programme **Master Studies in Statistics (120 ECTS)**

UNIVERSITY OF HELSINKI

EMOS module
TENTATIVE CURRICULUM for studies in statistics
Summary

Course	Credits	Scheduling
A. EMOS core module (12 ECTS, compulsory)		
Survey Sampling	7	1st year
Part 1: Sampling and Estimation		
Part 2: Topics in Official Statistics		
Survey Methodology	5	1st year
B. EMOS semi-elective courses (examples)		
Introduction to Register-Based Research	5	1st year
Data Analysis with SAS	5	1st year
Demographic Analysis	6	1st year
Register-Based Data Analysis	5	1st year
Small Area Estimation	8	2nd year
Structural Equation Models	8	2nd year
Generalized Linear Mixed Models	6	2nd year
Other applicable courses(*)		
C. EMOS elective courses (examples)		
Analysis of Complex Surveys	5	1st year
Applied Logistic Regression	5	1st year
Environmental Statistics	5	1st year
Robust Regression	6	1st year
Analysis of Categorical Data	5	2nd year
Statistical Demography	5	2nd year
Discrete Markov Processes	5	2nd year
Nonparametric and Robust Methods	6	2nd year
Other applicable courses(*)		
D. Master's Thesis and internship (40 ECTS)		
Master Thesis Project	40	1st/2nd year
E. Obligatory courses for Master's degree in statistics (10 ECTS)		
Generalized Linear Models	5	1st year
Advanced Statistical Inference	5	2nd year
F. Other obligatory studies (3 ECTS)		
Master Seminar	2	1st/2nd year
Training / Internship (included in Part D)	5	2nd year
HOPS (Personal Study Plan)	1	1st year

(*) Selected courses in general statistics and survey statistics and courses for example in econometrics and time series analysis, mathematics and computer sciences as well as methodological courses in applied disciplines (Economics, Sociology, Psychology etc.)

NOTE: Studies in statistics (points A to F) must comprise of 85 ECTS at the minimum