Methods for Official Statistics, 7.5 ECTS credits
(Officiell statistikproduktion, AN, 7,5 hp)

Course contents
The course covers the steps in the type of statistical investigations called official statistics, some steps in more detail than others. The Generic Statistical Business Process Model (GSBPM), which is the process model adopted by the UN and Eurostat, is the point of departure in this course. The model lists the major process steps in the production of statistics on two levels. Level 1 includes the specification of needs, design issues, building process components, data collection, data processing, analysis, dissemination, evaluation and quality management. Level 2 is a listing of the more detailed process steps involved.

The course covers a selection of these process steps. These steps are the GSBPM itself, quality in statistical systems, quality management, data collection, data processing, quality evaluation, nonresponse, disclosure control, and seasonal adjustment.

Learning goals
After the course the student is expected to be able to

- Critically assess the quality of a survey
- Use common methods in data collection, data processing and disclosure control
- Apply quality management principles in the production of official statistics
- Describe methodological aspects of the European Statistical System
- Apply techniques for handling problems associated with nonresponse and seasonal adjustment
- Understand the specific problems associated with comparative studies
• Understand the concept of big data

**Teaching format**
There will be 11 two-hour lectures. See a separate schedule document. The first hour of the first lecture is mandatory. A mandatory visit at a statistics production organization is also part of the teaching. The date for that activity has not been set yet but it will come late in the course. All teaching is in English.

**Lecturers**
All lecturers work at Statistics Sweden, the Swedish national statistical institute, or have previously worked at that agency. Thus, all lecturers have first-hand experience with the methods and principles discussed.

**Course coordinator**
Lars Lyberg, lars.lyberg@stat.su.se

**Teaching assistant**
Gelaye Worku, gelaworku@gmail.com

**Information during the course**
The Mondo website will be used for general communication and for home-assignments and their grading. However, do not hesitate to write Gelaye and Lars if need be.

**Literature**
Each lecturer will assign literature associated with the various lectures.

**Examination and grading**
There will be 11 home-assignments, one for each lecture. Each assignment can give the student a maximum of 9 points. Thus the maximum score for the entire course is 99 points. Each home assignment is graded by the lecturer in charge. Total grades are given on the following seven-point scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>99-90</td>
</tr>
<tr>
<td>B</td>
<td>Very good</td>
<td>89-80</td>
</tr>
<tr>
<td>C</td>
<td>Good</td>
<td>79-70</td>
</tr>
<tr>
<td>D</td>
<td>Satisfactory</td>
<td>69-60</td>
</tr>
<tr>
<td>E</td>
<td>Pass</td>
<td>59-50</td>
</tr>
<tr>
<td>Fx</td>
<td>Inadequate</td>
<td>49-30</td>
</tr>
<tr>
<td>F</td>
<td>Totally inadequate</td>
<td>Less than 30 points</td>
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Students with grades A-E pass the course. Students with grades Fx or F have a right to be reexamined to obtain at least grade E. Students who have passed do not have the right to ask for a reexamination to get a higher grade.