Two year master (120 ECTS)

**Fall semester year 1**
- Mathematics for Statistical and Economic Analysis (7.5 ECTS credits)
- Statistical Theory (7.5 ECTS credits)
- Econometrics (7.5 ECTS credits)
- Computational Statistics (7.5 ECTS credits)

**Spring semester year 1**
- Survey sampling (7.5 ECTS credits)
- Bayesian Statistics (7.5 ECTS credits)
- Sample Survey methodology (7.5 ECTS credits)
- Micro Econometrics (7.5 ECTS credits)

**Fall semester year 2**
- Elective courses (total 15 ECTS credits)
- Production of Official Statistics
- Register Data Analysis
- Courses in other subjects
- Master Thesis I (15 ECTS credits)

**Spring semester year 2**
- Elective courses (total 15 ECTS credits)
- Work placement for statisticians
- Multivariate analysis
- Time series analysis
- Courses in other subjects
- Master Thesis II (15 ECTS credits)

**EMOS-option**

**Mandatory courses in year 2**
- Production of Official Statistics
- Register data analysis
- Work placement for statisticians (at Statistics Sweden)
- Thesis on topic relevant to official statistics

**Cooperation with Statistics Sweden**
- Long standing cooperation with Statistics Sweden’s Örebro and Stockholm offices.
- Annual summer school in cooperation with Statistics Sweden.
- Joint appointments
- Statistics Sweden provides support for students writing theses on topics that are immediately relevant to (or proposed by) Statistics Sweden.
- Statistics Sweden offers internships to students in the EMOS-option.
- The possibility of arranging internships at other agencies in the Swedish system for official statistics and Statistics Norway is being explored.

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**Courses related to EMOS**

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<tr>
<th>Course</th>
<th>EMOS Topics</th>
<th>EMOS learning outcomes</th>
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<tr>
<td>Statistical Theory</td>
<td>Econometrics, Econometrics of Time Series and Panel Data</td>
<td>9 (analyse data)</td>
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<tr>
<td>Econometrics</td>
<td>Statistical Computing</td>
<td>8 (interpretation), 9 (analyse data)</td>
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<tr>
<td>Computational Statistics</td>
<td>Survey sampling, Survey Methodology</td>
<td>9, 10</td>
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<tr>
<td>Bayesian Statistics</td>
<td>Quality, Data Management, Administrative Data, Classification, Statistical Data Editing, Survey Methodology</td>
<td>9 (analyse data)</td>
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<tr>
<td>Sample Survey methodology</td>
<td>Econometrics of Time Series and Panel Data</td>
<td>5 (implications for analysis of data), 8 (interpretation), 9 (analyse data)</td>
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<tr>
<td>Micro Econometrics</td>
<td>European Statistical System, Code of Practice, Quality, Production Model, Data Management, Metadata, Statistical Disclosure Control, Data Law, Administrative Data, Evaluation and Monitoring</td>
<td>1, 2, 3, 4, 5, 7, 8, 9, 11, 12, 13</td>
</tr>
<tr>
<td>Production of Official Statistics</td>
<td>Register Data Analysis</td>
<td>5 (implications for analysis of data), 8 (interpretation), 9 (analyse data)</td>
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</tbody>
</table>

**EMOS learning outcomes**

1. Official Statistics as information structure
2. Organisational role of ESS and NSS, legal basis
3. Main institutions at national and international level
4. Code of Practice
5. Understand different kind of data sources
6. Design and manage complex data production processes
7. Different production models, GSBPM
8. Methodological issues in OS, interpretation of data
9. Methods suitable to produce and analyse data
10. Sampling methods, small area, nonresponse...
11. Framing statistical analysis in context of editing, imputation, non-response. Metadata, paradata.
12. Present data in an effective way
13. Confidentiality issues, disclosure control
14. Tools for data dissemination