**DYSLEXIA AND DYSCALCULIA (5 EC)**

*Functional and Dysfunctional Reading and Number Processing*

**Course Description**

To take part in society, the ability to read, understand numbers and perform calculations are essential skills. These skills are not only relevant to successfully complete an educational program, but also to follow the news, communicate with the government, businesses, colleagues, friends and members of your family. Moreover, you to understand the taxes you have to pay and be able to budget your income and expenses. Unfortunately, a significant portion of people have problems with reading or number processing because of (neuro)cognitive problems such as dyslexia and dyscalculia, suboptimal education or a combination of factors. This course covers such problems, but also normal, functional reading and number processing as this is crucial to understanding the possible problems, their origin, diagnosis and potential remedies. Finally, the course covers the, often negative, emotions and feelings (e.g., shame, anxiety, low self-esteem) associated with dysfunctional reading and number processing.

**Learning Goals**

Understand the normal reading process

Understand how people learn to read

Understand reading problems such as dyslexia

Know how reading problems can be diagnosed

Understand how reading problems can be remedied

Understand normal number processing

Understand how people learn to understand numbers and perform calculations

Understand problems with number processing such as dyscalculia

Know how problems with number processing can be diagnosed

Understand how problems with number processing can be remedied

Understand the emotions and feelings associated with dysfunctional reading and number processing