

## Scientific information management, 2 credits, GEM045F

Vetenskaplig informationshantering

### *Language*

The course can be given in either Swedish or English.

### *Qualifications*

Students must be accepted for postgraduate studies at LTH.

### *Selection criteria*

Priority is given to: 1) applicants who have applied on a previous occasion and who were qualified at that time and 2) postgraduate students most recently accepted for postgraduate studies.

### *Admission*

The course is announced on LTH's website (<http://www.lth.se>) and in announcements to the departments. Applications should be made on a form which can be downloaded from LTH's website (<http://www.lth.se>) where the supervisor certifies that the course is included in the student's individual study plan. LTH's Board takes decisions on admission. The Administrative Office of LTH informs all applicants as soon as possible.

### *Objectives*

To give the participants instruction and training in scientific information management, which implies that they should:

- be able to identify their information needs,
- have the knowledge and skills to search for information; the participants should be able to select relevant sources and be able to use them,
- be able to critically evaluate retrieved information,
- be able to use information from different sources to increase their scientific knowledge and the knowledge of the scientific community.

Upon completion of the course the participants will have gained knowledge about scientific information management both in general and within the specific research area in which they are working. During the course participants will also build up a personal collection of important quality-controlled information resources in their subject.

### *Content*

#### -- Databases

- Database structure
- Search tools and search strategies
- Problem-oriented database presentation, specific possibilities and restrictions, inventory of tool boxes
- The Web of Science
- Patent databases
- Database analysis (presented orally in groups by discipline)

#### -- Library resources

- Library catalogues, interlibrary loans
- Electronic journals and other fulltext resources

- Internet searching, quality-controlled link collections in specific subjects
- Reference management systems
- Scientific communication and publication
- LU:Research (self archiving)
- Copyright – rights and obligations, with practical advice in matters which may arise during PhD studies.
- Individual project

Participants will also analyse the information structure and communication tradition within their own research area, based on the scientific literature. The project is presented in a written report and at an oral presentation for the other course participants. The time set aside for the project is one week, during which each participant will have two hours' tutoring by a qualified librarian.

#### *Assessment*

To pass the course 80% participation in scheduled course activities is required.

Each participant must give a problem-oriented oral presentation and evaluation of a database, based on given criteria and her/his information needs. The participant is to give a written and an oral presentation of the project.

If there are extenuating circumstances some parts of the assessment can be performed differently.

#### *Course literature*

Reference literature in information management

Distributed material

Lund University Libraries' electronic library