UCLouvain

linfo2349

2026

Networking and security seminar

3.00 credits	30.0 h	Q1

Teacher(s)	Pelsser Cristel ;Riviere Etienne ;Sadre Ramin (coordinator) ;
Language :	English > French-friendly
Place of the course	Louvain-la-Neuve
Prerequisites	Required#: principles of computer systems, as targeted in course LINFO1252 Required#: skills in computer networks as targeted in course LINFO1341
Main themes	The topics covered in the seminar will address Computer network and security. In particular, scientific articles are selected in these fields. On the one hand, students are confronted with problem of the quality of a scientific bibliography. Moreover, students read scientific literature (eg articles from international journals).
Learning outcomes	**At the end of this learning unit, the student is able to :** Given the learning outcomes of the "Master in Computer Science and Engineering" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: • INFO1.1-3 • INFO3.1, INFO3.3 • INFO5.3-4, INFO5.6 • INFO6.1, INFO6.4, INFO6.5 Given the learning outcomes of the "Master [120] in Computer Science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: • SINF1.M1 • SINF3.1, SINF3.3 • SINF5.3-4, SINF5.6 • SINF6.1, SINF6.4 Student completing successfully this course will be able to • establish the state of the art based on the scientific literature, when confronted with a research problem beyond his current knowledge; • prepare a comprehensive report including a scientific bibliography and explaining its relevance to a theme; • synthesize a scientific article by explaining the context, challenges, innovative results, potential applications as well as tracks for further work in the field; • communicate orally the results of a research to a public of computer scientists not experts in the field; • interact with a person who presents research results showing a critical and constructive look over the work presented.

Evaluation methods	The grade for this course is calculated as follows for the January session: 1. 10% (2/20) points for the active participation of the student in all group activities in class during the semester 2. 45% (9/20) points for the survey written by the student 3. 10% (2/20) points for the quality and relevance of feedback provided to other student authors on drafts of other surveys, in the context of a peer-review activity 4. 30% (6/20) points for the individual presentation of a scientific paper 5. 5% (1/20) points for the quality and relevance of feedback provided to other student authors on drafts of other individual presentations, in the context of a peer-review activity For elements (2) and (4) of the grade, the mark will be established based on the structure, content, and presentation of the survey/presentation, and can include an oral interrogation upon request of the professors. For the August session, 25% (5 points) for (1), (3), and (5) of the grade is kept from the January session and cannot be redone. The student submits a new survey and a new individual presentation and can update the grade for (2) the survey and (4) the individual presentation, but without benefitting from peer-reviewing of drafts of her/his work. **Rules regarding the use of Artificial Intelligence (AI) in seminar activities** The following rules apply to the responsible use of AI in this seminar, in order not to compromise the achievement of its educational objectives. AI use is **permitted** to improve a text produced by students (grammar correction, improving style or clarity). This includes all texts produced in the seminar: survey, peer evaluations, group work, speech used for the video. AI use is **not permitted** to generate text from instructions (prompts), for any seminar productions, including peer evaluations. AI **may be used** to generate a summary of a scientific article in the context of selecting articles for the survey, or to analyze the content of the article presented in the video (for example, by asking the AI about concepts used in the article or asking it to challenge the student's understanding of the text). AI-generated summaries must in no case be used in the survey text. After the selection phase, students are required to have read the articles cited in the survey in full. It is **strictly forbidden** to use AI to (1) generate slides or the graphic content of the video; (2) generate the soundtrack (voice-over) of the video (except in specific PEPS arrangements). However, it is acceptable to use AI to generate a diagram or figure for the survey, as one would with drawing software. The permitted uses of AI are subject to the following rules: • Students must remain fully **responsible for their work** and **able to explain orally** all produced documents. • AI use must be **precisely documented** in each production. For example, in the survey, a note must appear at the bottom of the page or in the preamble specifying all AI tools used and for which part. Students who have not used AI must also indicate this in the same section. • AI use considered abusive, and undermining the acquisition of knowledge targeted by the seminar, may be treated as a violation under Section 7, Articles 107 and following of the General Regulations of Studies and Examinations (RGEE), with all related consequences, as provided in Articles 111 and following of the RGEE. In case of suspected abusive use of AI in submitted work, or of incomplete or inaccurate reporting of AI use, the course instructors may summon the concerned student for an additional oral assessment, and take necessary measures in agreement with the EPL examination board coordinator.
Teaching methods	This seminar consists of two main activities: • Writing a survey • Individual presentation of a scientific article Activities include interactive activities, personal work, one-to-one meetings with the professors, and peer review of produced works.
Inline resources	http://moodleucl.uclouvain.be/course/view.php?id=12895
Other infos	The research seminar should be followed the same year as the end of study work because it is a methodological support to its realization. It is not necessary to select the option corresponding to the seminar in order to participate.
Faculty or entity in charge	INFO

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Computer Science and Engineering	INFO2M	3		
Master [120] in Computer Science	SINF2M	3		
Master [120] in Data Science Engineering	DATE2M	3		
Master [120] in Data Science: Information Technology	DATI2M	3		