



# Conseil des agrégations

## CODA

### AGRE2221 Apprendre et enseigner avec les nouvelles technologies et exercices

[15h+15h exercices] 2 credits

**Teacher(s):** Marcel Lebrun (coord.), Michel Lefftz, Costantino Maeder  
**Language:** french  
**Level:** 2nd cycle course

#### Aims

##### Objectives

At the end of this course, the student will be more able

- to understand new information and communication technologies (ICT: audio-visual, multimedia, networks, Internet tools...),
- to determine their teaching possibilities and their limits,
- to describe teaching setups integrating these tools,
- to evaluate the impacts of them (cognitive, relational, emotional...) on the training and finally to estimate their various costs.

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The integration of these technologies in the mechanisms of teaching and training will be particularly underlined.

The more specific objective of the optional exercises will relate to the evaluation of the tools and the teaching setups in terms of competences that one wishes to develop.

#### Main themes

The major concern of the course is to locate various technologies within a problematic framework which subordinates the teaching "tools" to the objectives of the teaching training process. On the basis of example (Web sites, cederoms, softwares ...) extracted from various contexts and various disciplines, the following topics will be reviewed: techniques of multi-media and the Internet, a typology of technological tools for learning and teaching and their associated practices, pedagogical models for the development and the integration of the NTIC in education, the use of the NTIC in various teaching methods.

One will also underline the interest of the technological approach in the steps of resolution of problems coming from various disciplines and in the development of transverse competences in learning (use of the bureautic software, for example).

In the exercises, a very detailed attention will be given to the construction, the use and the exploitation of evaluation grids for each quoted technology and in their teaching uses.

#### Content and teaching methods

##### Methods

The course (the first 7 weeks) will be built around various talks illustrated "on line" (handling of the images, construction of Internet sites...) with a sufficient time for exchanges with the audience. For the optional exercises (7 last weeks), a formula of "mini-conference" (and teamwork) will be proposed. The students there will look further into a topic (analyzing software, educational sites, innovating devices...) and will present the results of their work "as a plénière".

## Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

### Others informations

The course in itself does not require prerequisites; the examples will be selected in various disciplines. With regard to the course, the exams will relate to the comprehension of the technical and teaching concepts seen in the course and to the analysis of a teaching situation integrating the technological tool. The evaluation of the exercises will relate to a thorough work of analysis, development and presentation of "products" and "situations" as well on the level of the techniques used as on the developed competences and the integration in teaching.

### Others elements

Demonstrations (on computer or in video) will be organized within each course in order to show operations of the various aspects approached by the courses "in real dimension".

### References

M. Lebrun (2002). Théories et méthodes pédagogiques pour enseigner et apprendre : Quelle place pour les TIC dans l'éducation. De Boeck (Bruxelles), 206 pages.

M. Lebrun (2002). Des technologies pour enseigner et apprendre. 2ème édition revue. De Boeck (Bruxelles), 240 pages

## Other credits in programs

<b>AGES2A</b>	Agrégation de l'enseignement secondaire supérieur (sciences économiques, sociales et juridiques)	
<b>ARKE2A</b>	Agrégation de l'enseignement secondaire supérieur (histoire de l'art, archéologie et musicologie) (2 credits)	
<b>CLAS2A</b>	Agrégation de l'enseignement secondaire supérieur (langues et littératures classiques) (2 credits)	
<b>GERM2A</b>	Agrégation de l'enseignement secondaire supérieur (langues et littératures germaniques) (2 credits)	
<b>HIST2A</b>	Agrégation de l'enseignement secondaire supérieur (histoire) (2 credits)	
<b>ISP2A</b>	Agrégation de l'enseignement secondaire supérieur (philosophie)	
<b>PSP2A</b>	Agrégation de l'enseignement secondaire supérieur (sciences psychologiques et sciences de l'éducation)	Mandatory
<b>RELI2A</b>	Agrégation de l'enseignement secondaire supérieur (sciences religieuses)	
<b>ROM2A</b>	Agrégation de l'enseignement secondaire supérieur (langues et littératures romanes) (2 credits)	