

# PhD program in Mathematics and Computer Science - University of Cagliari

## Rules for credits acquisition – Valid from XXXV cycle onwards

The PhD program adopts the European Credits system (EC CFR: Crediti di Formazione alla Ricerca). Students must collect at least 180 CFR in 3 years. During three years each student must collect no less than 12 and no more than 36 CFR of courses/seminars activities (referred to in the followings as I.1 - I.3). No more than 40 tutoring/teaching hours are allowed per year. The credits are always granted upon approval of the PhD Board. The B2 English certification is required. At the beginning of each year, each PhD student must present a plan of the courses he/she is going to follow. This plan must be approved by the PhD Board. The PhD board also reserves the right to approve or disapprove the credits related to research activities.

The following rules are for bibliometric sectors. In the case of students working with a tutor in a non-bibliometric sector, the PhD Board will make appropriate customization of these rules.

### I. Courses and tutoring activities

1. Seminars: 0.15 CFR x 1h
2. PhD courses:
  - a. lectures only: 1 CFR x 8h
  - b. lectures + exam: 1 CFR x 5h
3. Bachelor/Master courses: 1 CFR = 1 CFU (mandatory to pass the related exam)
4. English B2 certification: 4 CFR
5. Tutoring: 1 CFR x 8h (max 5 CFR x year)

### II. Research activities

1. Phd Thesis
  - a. Proposal (report+talk) at the end of first year: 30 CFR
  - b. Progress (report+talk) at the end of second year: 30 CFR
  - c. Admission to the final exam at the end of third year: 30 CFR
2. Mobility (national/international): 0.5 CFR / week above 3 months.

### Mathematics Curriculum

3. Publications (published or accepted for publication)<sup>1 2</sup>:
  - a. Paper on Q1-Q2 journal (ISI/Scimago): 40 CFR
  - b. Paper on Q3-Q4 journal (ISI/Scimago): 30 CFR
  - c. Paper on peer-reviewed journal: 10 CFR
  - d. Paper on conf./workshop proceedings and books indexed on ISI/Scopus (min. 4 pages): 10 CFR
  - e. Technical report and other papers: 5 CFR (max. 15 CFR)
4. Conferences & Talks:
  - a. Oral presentation at a conference or workshop: 10 CFR
  - b. Poster at a conference or workshop: 5 CFR
  - c. Participation to a conference or workshop (without paper/talk): 1 CFR x day (max. 4 CFR per conference, max. 15 CFR)
  - d. Research seminar/lecture: 5 CFR (max. 30 CFR)
  - e. Best Paper award at a conference/workshop: 5 CFR

### Computer Science Curriculum

5. Publications (published or accepted for publication)<sup>1 2</sup>:
  - a. Paper on top level journal (ISI/Scimago, Q1): 35 CFR
  - b. Paper on top level journal (ISI/Scimago, Q2): 25 CFR
  - c. Paper on ranked journal (ISI/Scimago, Q3-Q4): 15 CFR
  - d. Paper on conference/workshop proceedings<sup>3</sup>:
    - A, A\* CORE ranking 2018: 35 CFR full paper, 25 CFR other kinds of publication
    - B CORE ranking 2018: 15 CFR full paper, 10 CFR other kinds of publication
    - C CORE ranking 2018: 10 CFR full paper, 5 CFR other kinds of publication
  - Proceedings indexed in ISI/Scopus: 5 CFR

1 The same publication (for instance on conference proceedings and on a journal) cannot be considered more than once. An extended version is not considered "same publication".

2 In the case of new journals, the PhD Board will decide what ranking, if any, to attribute to the journal.

3 The 2018 CORE ranking ([www.core.edu.au/conference-portal](http://www.core.edu.au/conference-portal)) will be used until an updated ranking will be chosen. In the case the conference has a better CORE ranking in a subsequent year, the most favourable ranking will be used.

6. Conferences & Talks:

- a. Oral presentation: 10 CFR (at a conference or workshop), 5 CFR (other venues, max. 30 CFR)
- b. Poster and demo exhibitions: 5 CFR
- c. Participation to a PhD Symposium in the context of an international conference, presenting a contribution: 10 CFR
- e. Best Paper award at a conference/workshop: 20% addition to publication, min. 5 CFR

**Big Data Curriculum**

7. The Big Data curriculum will be assigned according to the tutor's SSD and will go along with the rules of Computer Science curriculum if the tutor belongs to the INF/01 SSD, along with the Mathematics curriculum if the tutor belongs to MAT or SECS SSDs. In case of mixed co-tutoring it will go along with the rules for the curriculum associated to the Ph.D. thesis.

**III. Constraints**

- 1. from 1st to 2nd year:
  - a.  $\geq 40$  CFR (of any activity) obtained in the first year
  - b. positive evaluation of the thesis proposal
- 2. from 2nd to 3rd year:
  - a.  $\geq 100$  CFR (of any activity) obtained in the first two years
  - b. positive evaluation of the thesis progress
- 3. by the end of the PhD:
  - a.  $\geq 180$  CFR (of any activity, with 12-36 CFR of courses and tutoring activities) obtained in 3 years
  - b. English level B2
  - c. at least 3 months of national/international mobility
  - d. positive evaluation of the PhD thesis presentation

The PhD Board can approve exceptions to these rules, in the case of strong, well documented motivations.