

The following list might result too ambitious for the workload of two semesters, the reader is though invited to take in considerations that the amount of ECTS is about the same of the previous semesters and that I am already through more than half of the present semester and don't have reasons to doubt that I'll finish what started. If there were concerns about whether the presented program is realistic, feel free to contact me at [simone.testino@gmail.com](mailto:simone.testino@gmail.com).

### III. Semester

My third semester is the Winter Semester 2023/4, which started in October 2023 and will end in February 2024. I divide the courses in the BSc Mathematics from those in the BA Philosophy (though consider that some of the courses in BSc Mathematics will be counted in the minor of the BA in Philosophy and vice versa). For further details consider visiting my website at <https://mynewquartz.pages.dev/>.

Total amount of credits for the semester: 81 ECTS

#### Mathematics

- Algebra, 9 ECTS. The usual course on algebra that follows Lin. Alg. I & II, Galois theory should be in the focus of the end of course.
- Analysis III, 9 ECTS. The program will end with Gauss and Stokes
- Stochastic, 9 ECTS. Usual course on probability theory.
- Programming II, 3 ECTS. Focuses on Object Oriented Programming on C++.
- Constructive Analysis, 3 ECTS. Focuses on implementations of [Minlog](#) from naturals to complex numbers. I worked and presented several themes and commands on natural numbers.

#### Philosophy

- Modern Philosophy, 6 ECTS. Usual course on history of modern philosophy, the focus is on Locke, Descartes and Kant.
- Political Philosophy, 6 ECTS. Focus of the course on Locke and Hobbes.
- Philosophy of Logic, 9 ECTS. Philosophical issues like logical consequence, pluralism, logical realism, inferentialism and a variety of other themes. Material on the course can be found [here](#).
- Philosophy of Physics, 6 ECTS. Following the history of Philosophy from Aristotle to Heisenberg, it faces the most relevant philosophical issues and influences. Material on the course can be found [here](#).
- Category Theory for the working philosopher, 9 ECTS. After an introduction on category theory (about half the course) we will examine several philosophical applications. Material on the course can be found [here](#).
- Modal Logic: Theory and Philosophical Applications (Seminar + Tutorial), 9 ECTS. After having proved soundness completeness in modal logic, Lindenbaum theorem (which I presented in the exercise sessions) and a few other theorems, we examine applications in a variety of philosophical topics.

## IV Semester

It is uncertain that I will precisely follow this list since there could be overlaps between the courses. Possible changes will not affect the total amount of ECTS (since those are required to finish the BSc and BA).

The amount of credits for the courses will be 51 ECTS + 9 ECTS or more, depending on how many other elective courses outside the bachelors I will take. To that, the credits of the [Theses](#)<sup>1</sup> are to be added, 15+6 ECTS in Philosophy and 12 ECTS in Mathematics.

Total amount of credits for the semester: 93 ECTS

### Mathematics

- Commutative Algebra, 9 ECTS.
- Programming I, 6 ECTS, introduction to C++.
- Geometry, 9 ECTS.
- Functional Theory, 9 ECTS.
- Elective Course in Applied Mathematics, 9 ECTS. Still unknown
- Seminar, 3 ECTS. Still unknown

### Philosophy

I plan to follow some more courses that are not required in the BA Philosophy and which will not count in it, most probably it will be about 2-3 courses at the MCMP. If the lecture on Philosophy of Mathematics by Prof. Leitgeb takes place, I will definitely join.

- Ethics, 6 ECTS.
- Philosophy of Mathematics, 9 ECTS

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<sup>1</sup>As one can read from the website <https://mynewquartz.pages.dev/Works/Bachelor/4th-Semester/Thesis/Thesis-Home>, I already have a project of the thesis and most of it will be done before the begin of the 4th semester.