



CHEMICAL AND MOLECULAR SCIENCES

SPECIALIZED
MASTER

You think that research is exciting and you would like to start with your own research as soon as possible? Then you are a candidate for the specialized Master's program in Chemical and Molecular Sciences.

The molecular sciences have evolved dramatically in recent decades. It is no longer clear what «should» be called chemistry, or biology, or biochemistry, or materials science, etc., because so much cutting-edge research spans two or more of these traditional disciplines. The Specialized MSc program in Chemical and Molecular Sciences (MS-CMS) is designed to address the needs of the students and faculty engaged in such multi-disciplinary research.

KEY FEATURES OF PROGRAM

- Open to students with a BSc in science
- Support of a CMS advisor required for admission
- 90 ECTS program: 60 ECTS MSc research, 30 ECTS coursework (including 4 ECTS Mol-Sci core courses) and seminars
- Active research during all 3 semesters of study
- Specific coursework plan based on the student's individual background and research plan
- Possible continuation from MSc study directly into a PhD program



90 MAJOR

30 MINOR

MAX.
120
ECTS

90 MONO

ECTS

PROFESSIONAL PERSPECTIVES

This specialized master is for students particularly interested in research. It is foreseen, that the Master Degree will serve as a transitional degree, which will be followed by a PhD program.

ADMISSION

For you, as prospective MSc students, some of the most important features or requirements for admission to the program are:

- Admission can be granted to applicants who have completed a BSc in the physical or natural sciences
- You do not have to do your MSc research in the same discipline as your BSc – you can work with any MNF faculty member
- You must identify a MSc advisor in advance, and this advisor must agree to sponsor your research
- The program is research intensive – you will be expected to do active research in all 3 semesters of your MSc studies
- The classes you take will be tailored to your individual background and research area
- The marks of your previous studies must be above average

SPECIALIZED MASTER: CHEMICAL AND MOLECULAR SCIENCES

MONO
90
ECTS

MAJOR
90
ECTS

MASTER STUDY PROGRAM

- 60 ECTS of research: You start the research project for your Master thesis in the first semester of your studies and it will last for the full time (at least three semesters) of your studies as the core part of the program.
- 30 ECTS of coursework: Here the regulations of the program comprise the following restrictions:

MANDATORY MODULES

MDS 101 «Introduction to Chemical and Molecular Sciences» (4 ECTS)
CHE 435 «Medicinal Chemistry» (5 ECTS)

CORE ELECTIVE MODULES

9 ECTS have to come from the core electives of the Master's program in Chemistry

ELECTIVE MODULES

12 ECTS have to come from special lectures in Chemistry or related programs from UZH and ETH

The individual choice of core elective and elective modules will depend on the student's education and the area of the Master's research.

POSSIBLE MINOR COMBINATIONS

30 MINOR
ECTS

The specialized Master can also be combined with a 30 ECTS minor either to deepen the knowledge in a related and for your research relevant area or to get first insights into a new field.

- Applied Probability and Statistics
- Bioinformatics
- Crystallography
- Computational Science

CONTACT

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CONTACT