

(A) GENERAL DATA

Title	Master's Programme in Chemistry
Degree	Chemist
Туре	Degree program
Level	Master level
Accreditation number	FNYF/100-3/2016
Institute	Institute of Chemistry
Language	English
Duration	4 semester
ECTS credits	120
Place	ELTE Lágymányos Campus
Minimum number of new students	1
Maximum number of new students	40





(B) PROGRAM CONTENT

Short description:

The chemistry master programme is intended to be a training with a flexible choice of courses, where students with different entry skills are able to acquire a standard knowledge of all fields in chemistry at the master level, a general experience in laboratory work, an advanced knowledge at least in one of the disciplines of chemistry, and the skill to develop and apply ideas within a research project. The programme contains limited number of obligatory courses.

The courses are divided into five parts.

The first part contains elective theoretical and laboratory courses on several chemistry related science disciplines, like mathematics, physics, biology, geoscience, etc.

The second part contains obligatory major theoretical and laboratory courses on all disciplines of chemistry containing knowledge and skill termed as an expected minimum for a master degree.

The third part of the master programme consists of a great number of elective, specialized chemical courses and four week summer internship.

The fourth part contains an obligatory 30 credit master thesis.

The fifth part of the master programme contains optional courses in other sciences.

The training is controlled via output requirements. For example, the theoretical knowledge of the students is tested in four comprehensive examinations an there are some credit minima on overall laboratory experience.

Academic specializations can be obtained if the number of the specialized courses sums up to 26 credits in different grouping of the courses. Students with missing background in a particular field of chemistry are required to choose courses from the bridging module.

Strength of program:

The strength of the program is the combination of acquiring solid background in chemistry and performing research activities at the internationally respected laboratories of the Institute of Chemistry. Another specialty of the program is the flexibility. It is open for applicants having different BSc degrees than BSc in Chemistry or BSc in Chemical Engineering. The control is via output requirements, they demand solid basic knowledge at all fields of chemistry. Students without solid background from their BSc studies spend the four or even more semesters to get it, while students with good background are able to obtain specialized knowledge.



(C) STRUCTURE

The training is controlled via output requirements:

- The students have to acquire at least 120 credits during the training. One credit reflects around 30 hours of student workload. The general amount is around 30 credits/semester. It means, the program can be finished in two years (4 semesters), if the applicant has good background in chemistry.
- 2) A thesis has to be prepared on an investigation realized by the graduate in research or development. The workload of the thesis is 30 credits.
- 3) The theoretical knowledge of the students is tested in four comprehensive examinations on the following fields: inorganic chemistry, analytical chemistry, organic chemistry and physical chemistry. The exams are taken before committees. Three comprehensive exams are taken at a "minimum master" level. A final exam is taken at an advanced level on the fourth field. For foreigner students it is highly suggested to take the repetitive courses (e.g. systematic analytical / organic / inorganic / physical chemistry) to enhance the success at the comprehensive exams.
- 4) 36 credits of obligatory theoretical and laboratory courses have to be obtained at our educational departments: Analytical Chemistry, Inorganic Chemistry, Organic Chemistry and Physical Chemistry.
- 5) The students have to obtain a certificate on the medium level written and oral knowledge of a universal foreign language this is a general Hungarian low regulation.
- 6) 4 week summer industrial placement (internship)
- 7) Academic specializations can be obtained if the number of the specialized courses sums up to 30 credits in different grouping of the courses.

The specialization is optional and shown below:

- a) Analytical Chemist
- b) Material Researcher Chemist
- c) Pharmaceutical Chemist
- d) Material Structure Researcher Chemist
- e) Computer Chemist
- f) Preparative Chemist

The list of the courses can be found on the homepage of the Institute of Chemistry given below: http://www.chem.elte.hu



Eötvös Loránd University Faculty of Science

International Degree Programs 2017/2018

(D) CAREER

Career opportunities:

After completing their studies and having their thesis accepted the students are awarded an MSc degree. If a student fulfilled the requirements of a specialisation module a written statement on the specialisation is also issued. The MSc degree qualifies its holder to take up positions in the relevant fields and to enlist for further studies, including the studies for a higher (PhD) degree.

Job examples:

All jobs required a master degree in Chemistry: e.g., analytical chemist, synthetic chemist, researcher, production manager, pharmaceutical chemist, food chemist, computational chemist, material science researcher, etc.

(E) ADMISSIONS FOR THE ACADEMIC YEAR 2017/2018

TUITION AND OTHER FEES

	EU/EEA students	non-EU/EEA students
Tuition fee/semester	4190 (EUR)*	4190 (EUR)*
Application fee	160 (EUR)	160 (EUR)
Registration fee	60 (EUR)	60 (EUR)

^{*}It is possible to apply for scholarship to reduce tuition fee.

Offered for the academic year 2017/2018?	YES
Deadline for applications – September intake (DD/MM/YYYY)	01 July 2017
Is there a February intake (DD/MM/YYYY)?	YES
Deadline for applications – February intake (DD/MM/YYYY)	15 December 2017

Admission requirements - Language requirements:

The successful applicant must have a BSc. degree in Chemistry, in Chemical Engineering or in any similar degree including reasonable amount of chemistry (at least 40 ECTS chemistry) in the curriculum. The application package should contain a short CV, copy of the degree certificate, transcript of results, and a language examination certificate. The certificates need not be translated, they are accepted in most of the European languages.

Applicants having reasonable GRE or EChemTest certificates might skip the written entrance exam taking place in Budapest. Applicants having a GRE subject test in Chemistry (http://www.ets.org/gre) above scaled score 750, (around percent 66%) are successful candidates to skip the written entrance exam at Budapest. In the case of EChemTest (http://www.echemtest.net) at least 50% has to be reached (at level 3 in minimum three fields: analytical chemistry, biological chemistry, physical chemistry, inorganic chemistry, organic chemistry) to maybe skip the exam in Budapest.

The successful applicant must have a good command of English. Several kind of internationally respected certificate of English language at advanced level is accepted.

Admission requirements – Documents to submit with application:

- ✓ Bachelor-level degree
- ✓ Transcript of records
- ✓ CV
- ✓ Application form



Eötvös Loránd University Faculty of Science

International Degree Programs 2017/2018

- ✓ Medical certificate
- ✓ Copy of application fee transfer
- ✓ If present: international certificate of GRE

Application procedure:

As a first step it is suggested to contact the program coordinator by email to obtain a guess on the reliability of your application based on the previous achievements and certificates. The coordinator will inform you on your chances to be enrolled without an entrance examination, or you have to take part on it. General information about studying in Hungary can be obtained from the faculty coordinator.

The official application starts by completion of the registration form (https://registration.elte.hu/) and by the payment of the application fee. Within few weeks the applicant will be informed, if he/she is enrolled due to the high quality of the previous studies, if he/she needs to take part at an entrance exam in Budapest, or the application is refused.

Procedure of the entrance examination:

In the case an entrance examination, the details of the written/oral exam in Budapest will be arranged by emails.





(F) CONTACT

Program leader

Name: Dr. János ROHONCZY

Program coordinator

Name: Dr. Viktor G. MIHUCZ

International program coordinator

Name: Angelika ÚJVÁRY

E-mail: inter [at] ttk.elte.hu