In the School of Chemical Engineering most courses taught in English are on the Master's level, but available for both Master and Bachelor level students provided that the prerequisites are met. Exchange students can choose courses offered in English at the School of Chemical Engineering freely as long as they have the required prerequisites, knowledge and skills to attend the course. However, even choosing courses from many different majors is possible it may cause some overlaps in course timetables.

In some cases, there may be restrictions in participation for certain courses (e.g. course availability restricted only for students of certain major or priority given to the degree students of the school), but applicant will be informed of these once their learning agreement/study plan has been checked.

Below you can find a list of courses offered in English at Aalto CHEM. Use the list as a starting point for making your Learning Agreement/study plan, but please note that it is subject to change. Course offering for the next academic year will be updated in the summer. Thus, you need to be prepared to make changes upon arrival due to overlaps in schedule or course cancellations.

Course list for the academic year 2019-2020

List of courses offered for the academic year 2019-2020, includes course descriptions - updated 8/2019
List of courses offered for the academic year 2019-2020, includes names only - updated 7/2019

Course list for the academic year 2018-2019

List of courses offered for the academic year 2018-2019, includes course descriptions
List of courses offered for the academic year 2018-2019, includes names only

Course list for the academic year 2017-2018

List of courses offered for the academic year 2017-2018, includes course descriptions
List of courses offered for the academic year 2017-2018, includes names only

How to read the course list:

- The extent of the courses is given in ECTS (= European Credit Transfer System) credits. One credit corresponds to 27 hours of work, including lectures and other forms of instruction, exercises, seminars and independent work at home and in the library. The scope of a course can be 1-15 credits depending on the content of the course.
- Periods I and II refer to teaching periods of the autumn term and periods III and IV and V refer to the teaching periods of the spring term.
- Abbreviations used in the course codes:
  - CHEM-C and CHEM-A = a Bachelor's level course
  - CHEM-E = a Master's level course
  - CHEM-L = a Doctoral level course
- Some changes in the courses for the next academic year are possible.

Instructions for Learning Agreement/Study Plan

- Please note that at least 2/3 of the courses selected must be from the School of Chemical Engineering in order to be admitted to this school.
- 1/3 of the courses can be selected from the other three Aalto University engineering schools (School of Science, School of Engineering and the School of Chemical Engineering) or from the Language Centre or from the interdisciplinary course offering (e.g. UWAS-courses).
- Courses from the Aalto University School of Business and the School of Arts, Design and Architecture can not be selected, apart from the Aalto cross-school courses, UWAS and interdisciplinary courses.
- A full study load is approximately 1600 hours per academic year which equals to 60 ECTS (= 60 cr). We expect incoming exchange students to study full time while at Aalto and to pass the courses with good grades. Full workload at Aalto is 30 ECTS credits for one semester.

Laboratory Safety and Orientation course

All new students of the School of Chemical Engineering are required to complete a short Laboratory safety entity (0 ECTS). If you wish, you can also complete a course CHEM-E0150 Orientation for exchange students in the School of Chemical Engineering (1 ECTS), Laboratory Safety being part of the course.

Laboratory safety

The laboratory safety entity includes lectures/assignments and an oral group exam in the beginning of the term. The contents concern basic safety matters that might already be familiar to you. All the students in the School of Chemical Engineering are required to pass Laboratory Safety in order to be eligible to attend the courses. Laboratory Safety will be recorded in your Aalto University transcript of records without ECTS credits.

Orientation course
Starting from autumn term 2017 we offer a new course for exchange students titled “CHEM-E0150 Orientation for exchange students in the School of Chemical Engineering” (1 ECTS). It includes participation in orientation sessions, above mentioned Laboratory Safety and independent work (e.g. writing a short essay reflecting your arrival at Aalto University). You can register for this course during the orientation week. This course is voluntary, so you are not required to complete this course. However, you are still required to complete the Laboratory Safety part and the obligatory parts of the orientation.

Final Projects in the School of Chemical Engineering

Whether a student from a partner university can complete a final project during exchange studies at the Aalto University School of Chemical Engineering (AaltoCHEM) depends on the resources of the department/research group the student is interested in. Placement is not guaranteed even if the exchange period required thesis work. Priority in thesis placements is given to the degree students of our school. AaltoCHEM has the right to reject an application if the placement for thesis work cannot be arranged.

Please note also that for exchange students the final project is registered in the transcript of records as a course with varying content (code CHEM-EV), not as a Master’s thesis.

It is important to note that you should reserve enough time for the final project. Preferably final project workers should stay the whole academic year at Aalto, one semester may be too short time (autumn term 4 months, spring term 5 months)

Completing a final project requires a very high level of English language skills, especially in academic writing. Please make sure that if you are applying as an exchange student and you are interested in completing Final Project work here you must have sufficient English language skills.

The preferable level of English language skills is B2-C1 on the CEFR scale (or IELTS 6.5, TOEFL ibt 92). Students applying for a final project should submit a certificate stating they have sufficient English language skills. This can be a IELTS of TOEFL certificate, or a certificate by an e.g. English teacher at the home university reviewing the student’s skills on the CEFR scale.

Topic of the Final Project

There are no ready-made lists of topics that students could choose from. Therefore, the first thing is to determine your field of interest by browsing the Schools' departments/research groups webpages. You can find the information about the School of Chemical Engineering at https://www.aalto.fi/en/school-of-chemical-engineering. (> Departments and infrastructures > choose the department you are interested in > choose the research group you are interested in > you will find the name of the responsible professor).

It is strongly recommended to have preliminary contact with the professor already before applying to Aalto University, otherwise it is rather unlikely that Final Project placement can be found for you. You can find contact information of the professors and research groups from the webpages mentioned above. In the exchange application you should clearly mention the professor you have been in contact with. Too general description e.g. “any topic is ok for me” will lead to rejection of the application.

Remember to mention final/project/research project and the number of ECTS you wish to attain also in your Learning Agreement. You should make sure that the topic you are interested in is also suitable for your major. It is essential that you have a strong background in the field that you choose, as it is impossible to complete a demanding project in a field that is completely or almost new to you.

When you have submitted your exchange application with the required attachments and details of the project envisioned, we will confirm with the professor you have mentioned that the project work can be provided. Please note that the possibility to complete a project always depends on available resources and a placement may be difficult to arrange.

The process of finding a project placement may take some time, so please be patient and start the process early enough.

It is recommended to be prepared to take courses as well. This will enable you to carry out a student exchange even if you cannot find a project placement. Additionally, it might be easier to find a placement after starting your student exchange at Aalto, as you can meet the professor personally for further negotiations.

How the project is registered in transcript of records?

Most students complete their Final Project as a course with varying content. In this case the work will be registered in the official transcript of records as a course (code CHEM-EV). Also, the amount of credits and grade (either numerical or pass/fail) will be mentioned. However, a separate, official evaluation statement will not be provided. Students should follow the process at their home university to get the work evaluated as a Master's Thesis. After the work is ready, the supervisor will inform the administration, and the course will be registered to your transcript of records.

NOTE: remember to agree with your supervisor on the topic, the schedule and how many credits you will receive (e.g. 10, 15, 30) etc. Please remember that the project work must be completed and submitted within the time limitation of the study right.