

Course List for Tsinghua-Aachen Double Degree Master Program

Department of Industrial Engineering, Tsinghua University

1. Credits Requirement

The program courses could be finished either at Tsinghua or at Aachen. A minimum of 28 credits are required (mathematics not included), among which a minimum of 19 credits should be obtained at Tsinghua including 7 credits for **Required Courses** and 12 credits for **General and Elective Courses**.

Credits Transfer: 2 ECTS of Aachen equals 1 credit of Tsinghua.

1) Required Courses (≥ 7 credits)

Course	Course ID	Credits	Exam /Inspection	Venue
Elementary Chinese ¹	00000002	2	Exam	Tsinghua
Chinese Culture and Society ²	00000007	3	Exam	Tsinghua
Academic activities	69990031	1	Inspection	Tsinghua
Literature review and opening report for the small thesis	69990021	1	Inspection	Tsinghua

2) General Courses (6 credits)

Course	Course ID	Credits	Exam /Inspection	Venue
Manufacturing Technology I	70120223	3	Exam	Tsinghua/Aachen
Production Management	70160033	3	Exam	Tsinghua/Aachen

Note:

- All students must take the two courses. If RWTH students already completed similar courses throughout their undergraduate studies at RWTH, these students are required to take further courses from the elective course catalogues (to a total of 6 credits).
- 3 credits for courses completed in Tsinghua. If same graduate level courses completed in Aachen and needed to be recognized as Tsinghua courses, the exchange rate will abide by the rules of 2ECTs to 1 Tsinghua credit.

3) Elective Courses for Industrial Engineering (15 credits)

¹ The student can apply for exemption of the course on condition that one of the corresponding requirements in the students' handbook is satisfied.

² Students select the courses from the same Course Group: the "Understanding China Courses" with the course group number of 00000007. If only a 2 credits course is available, the 1 credit short can be made up by taking an extra course, either in the same course group or the Elective Courses of IE department.

Course	Course ID	Credits	Exam /Inspection	Venue
Ergonomics (RWTH title: Industrial Engineering and Ergonomics)	70160613	3	Exam	Tsinghua/ Aachen
Introduction to Decision Making	70160513	3	Exam	Tsinghua
Logistics and Supply Chain Management	80160223	3	Exam	Tsinghua
Quality Engineering	70160023	3	Exam	Tsinghua/Aachen
Production Metrology		3	Exam	Aachen
Manufacturing Technology II	80120723	3	Exam	Tsinghua/Aachen
Industrial Logistics		3	Exam	Aachen
Mechatronics and Control Techniques of Production Plants		3	Exam	Aachen
Production Management II		3	Exam	Aachen
Engineering and Technology Management	80160363	3	Exam	Tsinghua
Systematic Product Design and Development	80160283	3	Exam	Tsinghua
Chinese Industry Studies: Advanced Manufacturing and Contemporary Service	80160523	3	Exam	Tsinghua
Quantitative Analysis	80160393	3	Exam	Tsinghua