Academic Year 2023-2024

Electrical Engineering, Mathematics & Computer Science

Exchange courses

Course selection guidelines

The table below shows how the academic year is divided and what is expected of you from each semester and/or period. With the details below of how many EC you are expected to obtain, you will be able to make a study plan that will need to be approved by your home university and TU Delft.

ECTS
European Credit Transfer System

60 EC = 1 year study

1 EC = 28 hours

Includes: Lectures, Laboratory courses, practical work, assignments, projects, private work as well as examinations and other assessment activities.

Academic year
1 September - 31 August

Semester 1 Aug - Jan		Semester 2 Feb - July	
Period 1	Period 2	Period 3	Period 4

Choose a maximum study load of 12-15 EC per period

Expected 24-30 EC study load per semester

Things to consider when you choose your courses

1. Will you be staying for 1 or 2 semesters? This will affect the number of EC you need to choose.
2. You must take a course load equal to 24-30 EC per semester, 12-15 EC per period.
3. More detailed information about the courses can be found via the study guide. Guidelines on how to use it can be found here.
4. Changes to your course plan after your arrival still need to meet the above requirements.
5. Carefully consider your course workload (minimum 24 EC), and the manageability of it. Students are not permitted to re-sit exams after the end of the official exchange period. Alternative course/s will need to be taken at your home university when you return
6. We advise students to take most of the courses at the faculty of EEMCS as it increases the chance of getting accepted and reduces the chance of schedule clashes.
7. Maximum 30% of the credits can be taken at other faculties (expect at the faculties of Industrial Design and Architecture and the Build environment). There are restrictions for courses from other faculties. Courses from the faculty of Aerospace are mostly not accepted. You can read more information on the website: https://www.tudelft.nl/en/education/admission-and-application/exchange-students/requirements/course-selection-restrictions.
8. Always check the study guide well in advance for the prerequisites. Changes in courses always need to be requested before the period starts!

EEMCS

Courses for 2023

BSc

Listed below are all English taught BSc courses available to exchange students. BSc courses not listed on this list are not available! All students who come to TU Delft during their BSc level, or are in the first 3 years of their academic career, can only follow BSc courses. You can either choose courses from the regular curriculum or follow a complete minor mentioned below. A minor is a well-rounded package of courses on one main topic.

BSc Minor courses: Individual courses from a minor cannot be followed separately unless they are mentioned in the normal subject list. Exchange students can only enrol for one of the minors below through the international office of EEMCS.

BSc CSE courses are only available for BSc exchange students enrolled in the Exchange Computer Science program. Other students cannot select courses starting with CSE.

MSc

MSc CESE; most courses of the MSc CESE have limited capacity, especially the lab courses. You have a slim chance you are allowed to follow this course.
CESE 4030 pre knowledge in programming RUST is a must.

English BSc courses available for exchange students

BSc Minors; Only available in the Fall semester (period 1 and 2)
You can only follow the complete minor, courses of the minor are not available seperately

Minor Electronics for Robotics (Electrical Engineering)
Electronics for Robotics (tudelft.nl)
Minor Electrical Sustainable Energy Systems
Electrical Sustainable Energy Systems (tudelft.nl)
Minor Finance
Finance (tudelft.nl)
Minor Computational Science and Engineering (Applied Mathematics)
Computational Science and Engineering (tudelft.nl)

BSc Applied Mathematics

Course Code	Course Name	Cat.	EC	Period (Q)
	Applied Mathematics: 1st year			
AM1050-A	Modelling-A	BSc	5	3
AM1050-B	Modelling-B	BSc	5	4
	Applied Mathematics: 2nd year			
AM2080	Introduction to Statistics	BSc	6	1
AM2520-P	Philosophy of Mathematics	BSc	6	1
AM2020	Optimization	BSc	6	2
AM2050-A	Modelling 2A	BSc	3	3

AM2510	Decision Theory	Bsc	6	3
AM2520-H	History of Mathematics	BSc	6	3
AM2550	Advanced Statistics	BSc	6	3
AM2560	Applied Algebra: Codes	BSc	6	3
AM2570	Markov Processes	BSc	6	3
AM2050-B	Modelling 2B	BSc	3	4
	Applied Mathematics: 3rd year			
AM3500	Mathematics seminar	BSc	6	1
AM3570	Fourier Analysis	BSc	6	1
AM3590	Topology	BSc	6	1
AM3510	Mathematical Physical Models	BSc	6	3
AM3530	Numerical Methods 2	BSc	6	3
AM3550	Graph Theory	BSc	6	3
AM3560	Advanced Probability	BSc	6	3
AM3580	Differential Geometry	BSc	6	3

BSc Computer Science -

Only available to BSc Computer Science Students enrolled in Exchange Computer Science

Course Code	Course Name	Cat.	EC	Period (Q)
	Computer science: 1st year			
CSE1300	Reasoning & Logic	BSc	5	1
CSE1400	Computer Organisation	BSc	5	1
CSE1505	Information Data Management	BSc	5	3
CSE1110	Software Quality & Testing	BSc	5	4
CSE1405	Computer Networks	BSc	5	4
	Computer science: 2nd year			
CSE2510	Machine Learning	BSc	5	1
CSE2215	Computer Graphics	BSc	5	1
CSE2520	Big Data Processing	BSc	5	1
CSE2310	Algorithm Design	BSc	5	2
CSE2525	Data Mining	BSc	5	2
CSE2120	Concepts of Programming Languages	BSc	5	3
CSE2315	Automata, Languages and Computability	BSc	5	3
CSE2530	Computational Intelligence	BSc	5	3
	Computer science: 3rd year			3
CSE3xxx	Electives of the third year, several. As they are subject to change, please check the available 5 EC courses in the study guide (link below). The research project is not available.	BSc	5	3
CSE3xxx	https://studiegids.tudelft.nl/a101_displayProgram.do?program_tree_id=26478	BSc	5	3

BSc Electrical Engineering

Course Code	Course Name	Cat.	EC	Period (Q)
	Electrical engineering: 2nd year			
EE2M11	Complex Analysis	BSc	5	1
EE2E11	Electrical Energy Conversion	BSc	5	1
EE2C11	Integrated Circuits	BSc	5	1
EE2M21	Linear Algebra and Differential Equations	BSc	5	2
EE2S11	Signals and Systems	BSc	5	2
EE2S21	Systems and Control	BSc	5	3
EE2T11-BP	Telecommunictions A voor Bridging Programme	BSc	3	3
EE2E21	Sustainable Energy Supply	BSc	5	3
EE2S31	Signal Processing	BSc	5	4
EE2T21	Telecommunications B	BSc	5	4
	Electrical engineering: 3rd year			
EE3P11	Electromagnetics	BSc	5	3
EE3D11	Computer Architecture and Organisation	BSc	5	3
EE3C11	Electronics	BSc	5	3