

# Brochure

Matching & Selection Procedure

BSc Computer Science & Engineering

2019 - 2020



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## Matching & Selection Procedure Computer Science & Engineering

2018-2019

In this brochure you will find more general information on the matching & selection procedure of the bachelor Computer Science & Engineering TU Delft.

The deadline to apply for this online procedure is January 15, 2019. With this brochure you can get an overview and gain more insights into this procedure.

Applicants will receive more detailed information by e-mail after January 15, 2019 after completing the registration.

Please read the brochure carefully before starting!

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*All dates and times in this brochure are in Central European Time (CET), Dutch local time*

## Procedure in short

Due to increasing numbers of students the BSc Computer Science and Engineering at TU Delft has a fixed capacity; a Numerus Clausus. For the academic year 2019 - 2020 this capacity is set at 500 new bachelor students. The deadline to apply is January 15, 2019.

- In order to participate in the **online** matching and selection procedure, you must register yourself in the Dutch national application system [Studielink](#) before **January 15, 2019**.
- All applicants with a completed registration will receive an invitation by email before **February 1, 2019** to participate in the first part of the Matching & Selection Procedure. This email will contain further instructions on the exact procedure. The entire procedure takes place online between **February 1, 2019** and **March 15, 2019**.
- Starting from **April 15, 2019** you will receive your ranking number in Studielink. The ranking will be based on the three criteria tested in the Cognitive Skills Test (CST). If the ranking number is within our maximum (1 - 500), you will automatically receive a (conditional) offer.
- If your ranking number is higher than the available capacity (above the 500), you will have to wait until one of the other applicants declines their offer or you can try again next year. **After April 15, 2019** applicants with subsequent ranking numbers can still be offered a spot, so make sure to keep an eye on Studielink and your email.

## What is Studielink?

Studielink is the national enrolment system in the Netherlands for higher education. You need to register yourself online in Studielink. In addition, ensure that the e-mail address you use in the matching and selection procedure is the same as the e-mail address you used for Studielink.

## Bachelor Computer Science & Engineering

During the bachelor Computer Science & Engineering, you will learn how computers, networks and embedded systems work. You will study algorithms and address questions, such as “What is an algorithm precisely? What can computers do and what can they not do?” and “How can you represent software mathematically?” Of course, you will also work with various programming languages and study data structures. You will learn how to model complex systems and how users interact with such systems. During this programme you will try to solve problems in a logical analytical way.

### Who are we looking for?

- curious problem-solvers
- pro-active team workers who are able to collaborate and communicate well
- profound analytical engineers
- students who are capable of obtaining a BSc degree within three to four years
- students who adhere to and identify with the values: respect, honesty, responsibility and trust, as embodied in the [Code of Honour](#).



# Matching & Selection Procedure

All applicants must participate in the online Matching & Selection procedure, which is held in English. The matching and selection procedure consists of three different parts, which all need to be completed in order to receive a ranking number.

1. Non-Cognitive Skills Assessment (NCSA) Feb 1- 15 13:59 CET
2. Cognitive Skills Test (CST) March 1- 15 13:59 CET
  - a. Mathematics
  - b. Systematic Reasoning & Logical Thinking
  - c. Algorithmic & Computational Thinking
3. Self-Reflection Assessment (SRA) March 1- 15 13:59 CET

The Non-Cognitive Skills Assessment (1) and the Self-Reflection Assessment (3) are part of the matching procedure. This part is there to help you find out if Computer Science & Engineering at TU Delft is the right programme for you. The Cognitive Skills Test (2) is part of the selection procedure and is there to see if there is a good match between your aptitude and the capabilities needed to succeed in this programme.

All the assessments and tests have to be completed **online**.

## Steps Matching & Selection Procedure

*The steps below are meant to offer a more detailed overview of the Matching & Selection Procedure. All applicants with a completed registration, will be kept informed about the various steps in the procedure through email. Ensure that the e-mail address you use in the matching and selection procedure is the same as the e-mail address you used for Studielink.*

### Step 1: January 15 23:59 CET: Deadline registration

In order to participate in the selection procedure, you must register yourself in the Dutch national application system Studielink before January 15, 2019. If you have an international secondary school diploma, make sure to continue your application in the online application system of TU Delft, called Osiris. Submit your [complete application](#) file by January 15 as well. Please note that it takes time to obtain your login for Studielink, to collect the required documents and to complete your application, so start in time as all deadlines are fixed.

All further communication regarding the selection procedure will be sent by email to the address you submit in Studielink. It is your own responsibility to check for messages in your inbox and spam folder during the entire matching and selection procedure.

### Step 2: Completed registrations will receive an invite before February 1

All applicants with a completed registration will receive an invitation by email at least one week before the start of the assessment period to participate in the first part of the Matching & Selection Procedure: the Non-Cognitive Skills Assessment (NCSA). This email will contain further instructions on the exact procedure.

### Step 3: February 1 - February 15 13:59 CET: Non-Cognitive Skills Assessment online

The first part of the Matching & Selection procedure is the Non-Cognitive Skills Assessment (NCSA) and consists of the following elements:

- a. Online Student Experience
- b. Motivation & Perseverance
- c. Group work

You need to complete all three elements of the NCSA in a meaningful way before February 15 at 13:59 CET.

The possible score that you can get for all three elements of the online NCSA is 0 (did not fill out in a meaningful way) or 1 (filled out in a meaningful way). This score is based on whether you have answered all questions in a serious way.

#### Step 4: Completed NCSA receive invite before March 1 to participate in CST

All applicants who have scored a 1 for the first part of the Matching & Selection procedure, the Non-Cognitive Skills Assessment (NCSA), will receive an invitation email at least one week before the start of the test. This email will include further information and instructions to participate in the Cognitive Skills Tests (CST) during the specified test period.

#### Step 5a: March 1 - March 15 13:59 CET: Cognitive Skills Test (CST)

The CST is the selective part of the procedure and consists of the following three elements:

- a. Mathematics (40%)
- b. Systematic Reasoning & Logical Thinking (20%)
- c. Algorithmic & Computational Thinking (40%)

You need to complete all three elements of the CST before March 15 at 13:59 CET. The complete CST takes three hours in total; each element lasts one hour. A counter showing the remaining time will be visible during the test.

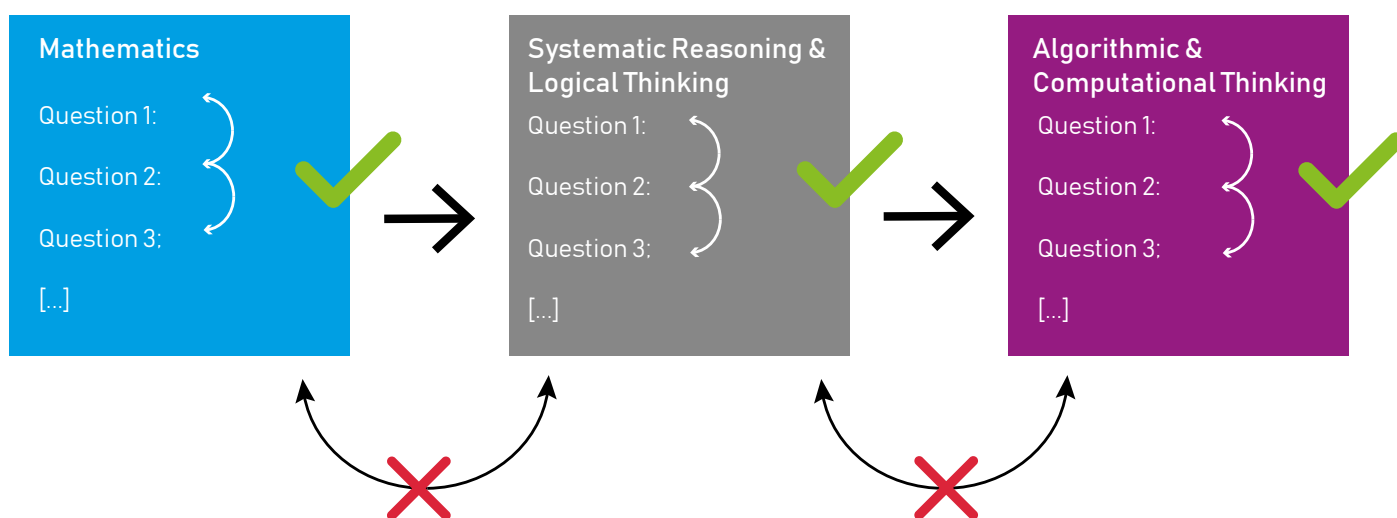
For the CST you **need** to bring your identification card or passport.

The CST is the only part of the Matching & Selection procedure that will be [proctored online](#). This means that you and your computer screen will be monitored during the CST to ensure a honest procedure.

Once you start, you have to complete the entire CST and once completed, this part of the Matching and Selection procedure is finalized. You cannot re-sit or re-take the CST. The percentages in between brackets behind the three main elements of the CST indicate how much each test element weights when calculating the final grade.

The order of the questions are designed in such a way that the questions will gradually become more difficult within all three elements of the CST. It is likely that you will not be able to answer all questions of the CST test elements within the set time frame.

You can go forward and backward within a test element, but once you have completed a test, you have to continue with the next test. Please note that once you have completed a test element and started with the following, you cannot go back to the previous test element.



### Step 5b: March 1 - March 15 13:59 CET: Self-Reflection Assessment (SRA)

After completing the CST you can finalize the Matching & Selection procedure by completing the Self-Reflection Assessment (SRA) before March 15 at 13:59 CET. This is a subjective evaluation in which you will reflect on your application for the bachelor programme Computer Science and Engineering. There is a maximum of 500 words for this assessment. The possible score that you can get for the SRA is 0 (did not fill out in a meaningful way) or 1 (filled out in a meaningful way).

Please note that the SRA needs to be completed within the same time frame as the CST. We recommend planning the SRA a couple of days after you have taken the CST, so that you can truly reflect on your choice for Computer Science Engineering.

### Step 6: April 15: Receive ranking number

Starting from April 15, you will receive your ranking number in Studielink. Excluded candidates will be informed by e-mail within one month after the test period has ended. It is important to note that participating in the matching and selection procedure or receiving a ranking number, does not automatically mean that you meet the [admission requirements](#). The obtained ranking number is only valid during the selection and admission procedure preceding that specific academic year. Thus, it is not possible to use your ranking number for later academic years. You may participate up to three times in the matching and selection procedure of the BSc programme Computer Science and Engineering.

### Step 7: Accept your spot within 2 weeks & finalize your registration

Ranking numbers will be visible in Studielink after April 15, 2019. If the ranking number is within our maximum, you will automatically receive a (conditional) offer, if not, you have to wait until one of the other applicants declines their offer or you can try again next year.

You must confirm your acceptance of this offer within two weeks, by completing your registration in Studielink. Otherwise, your spot will go to the applicant with the next ranking number. This means that after April 15, applicants with subsequent ranking numbers can still be offered a spot, so make sure to keep an eye on Studielink and your email. If you are an applicant with a non-EU nationality you can only be supported in your visa procedure if you receive a spot before June 15 to ensure that you obtain your visa in time.

Please be aware that most applicants will receive a *conditional* offer as most still have to meet the entry requirements of the programme, e.g. graduate from your secondary education. In order to finalize your registration you may need to upload certain documents to demonstrate that you have met the entry requirements, make sure to regularly double check Studielink to see whether your registration is completely finalized.



## How to prepare?

You are allowed to use the following items during the tests:

- A dictionary
- Blank paper in single sheets
- Pencils and/or pens

For the CST you need to bring:

- An identification card or passport

A calculator is not allowed, nor is a calculator on a mobile device, neither a second computer. It is not allowed to wear a headset during the CST.

## Non-Cognitive Skills Assessment (NCSA)

You are not expected to prepare for the Non-Cognitive Skills Assessment (NCSA), but we encourage you to check the [website](#) for further information about the programme.

## Cognitive Skills Test (CST)

The Cognitive Skills Tests consists of three elements.

### a) Mathematics

This element will test your potential mathematical capacities. You can prepare for Mathematics with the [free online pre-university calculus course](#) developed by TU Delft. In addition, the following items will be provided at least two weeks before the start of the CST.

- Formula Sheet
- Syllabus

The formula sheet will always be available online during the test.

### b) Systematic Reasoning & Logical Thinking

This element will test your systematic reasoning and logical thinking capacities. You can prepare for this test with material that will be provided online at least two weeks before the start of the CST.

### c) Algorithmic & Computational Thinking

This test will test your potential to solve puzzles, process-oriented thinking and your ability to come up with efficient solutions to real-world computational problems. You cannot prepare for Algorithmic & Computational Thinking as this is an aptitude test.

## Self-Reflection Assessment (SRA)

You are not expected to prepare for the SRA, but we encourage you to discuss the procedure with friends and family in order to help you reflect on whether this programme is still the right choice for you.



## Determining the ranking numbers

Performances in the Non-Cognitive Skills Assessment (NCSA) and Self-Reflection Assessment (SRA) will not be used to determine the final ranking. However, candidates who fail to complete the SRA and/or all three elements of the NCSA within the set timeframe in a meaningful way, will score a 0 and will be excluded from the matching and selection procedure. Candidates will then not receive a ranking number and will have used a selection opportunity.

Your ranking number is determined by your final tests scores, which are based on the three elements of the Cognitive-Skills Test (CST). The score of each element of the CST is determined by the number of correct answers. These individual scores will be converted to standardized z-scores before they are combined into a final score. The final scores will be rounded to two decimals.

Your final tests scores are compared to other candidates' z-scores. As a result there is no fixed pass or fail grade. Higher final tests scores result in better (=lower) ranking numbers. The candidate with the highest final score receives the lowest ranking number, the candidate with the second highest final score receives the next ranking number. If two or more candidates qualify for the same ranking number, the score on the mathematics element determines the ranking between these candidates. If this is not sufficient to obtain a definitive ranking, the ranking number will be assigned by lot.

Candidates can review their tests scores as converted into standardized z-scores, after they have received their ranking number. For reasons of confidentiality and objectivity we will not communicate about the method and evaluation of the criteria, nor is it possible to review the tests or individual answers given.

## Extra time

Candidates who have been diagnosed with a learning disability and/or are experiencing extenuating circumstances can request extra time for the Cognitive Skills Tests, by contacting [selection-bsc-cse@tudelft.nl](mailto:selection-bsc-cse@tudelft.nl). Requests need to be supported with documentation (e.g. medical or psychological statement) and should be submitted **before the deadline of January 15th**.

## More information

### Enrolment or admission requirement

- website
- FAQ
- Central Student Administration

### Matching & Selection Procedure

- website
- FAQ
- [selection-bsc-cse@tudelft.nl](mailto:selection-bsc-cse@tudelft.nl)

Timeline