In a world very much dominated by technology, applied mathematics is absolutely essential. It plays an important part in engineering, construction, finance, budgeting, planning, policymaking and countless other activities.

Just imagine what would happen if someone were to devise a model that could make accurate predictions for fluctuations in the stock market. There can be little doubt that such a model—a typical example of applied mathematics—would become an important tool for investors all around the world.

Computational and mathematical tools are used to predict the behaviours of technical, physical and even social systems, ranging from tomorrow's weather to the viability of social insurance systems and the global climate one hundred years from now. Applied mathematicians devise models and algorithms that influence our daily lives. For example, everybody uses search engines to find information on the internet. Thanks to advanced mathematical algorithms, these search engines give us this information in a fraction of a second.

The TU Delft Master of Science programme in Applied Mathematics is designed for students with a Bachelor's degree in Applied Mathematics or a closely related subject. When you join the MSc Programme in Applied Mathematics at TU Delft you will gain a thorough knowledge of applicable mathematics, in addition to developing expertise in applying the methods and tools of mathematics to problems in science and engineering.

This programme focuses on the acquisition of broad experience in simulation and the mathematical modelling of problems in science and engineering, in the mathematical analysis of these models and in the implementation of the results. You will gain sufficient insight into the underlying mathematical theories, allowing you to develop new mathematical methods and techniques, if needed.
Mijke Carlier (Netherlands)

I completed my Bachelor’s degree in Mathematics at Leiden University. As part of my Bachelor’s, I took some applied courses at Delft University of Technology, which I found more interesting than the theoretical courses. I therefore decided that I wanted to do a Master’s in Applied Mathematics at TU Delft. What I really like about the courses in this Master’s programme is that they all include some sort of project work. These projects involve various disciplines such as Physics, Civil Engineering and Computer Science. At TU Delft, it is common to do exercises and projects in groups with other students so that you can learn from each other, which also makes the work easier.

Another important aspect is that you have a lot of freedom in choosing your courses, which allows you to try different things and find out what you are most interested in. The members of the academic staff are really approachable and helpful. If you have a question about homework or courses that you might want to take, you can just go to the professor’s office and ask him or her for help. Delft itself is a really great student city. It has lots of nice little coffee places, but also a very busy city centre with a lot of restaurants and bars, so after a hard day’s study you have plenty of opportunities to relax and enjoy yourself.
I am a professor of statistics at the Delft Institute of Applied Mathematics. My research focuses on mathematical modelling and the analysis of incomplete and corrupted data. Such data occur in many applications. The aspect of applied mathematics that attracts me the most is its breadth, as it involves real-life applications and (in my opinion) beautiful mathematics. Collaboration with experts in a variety of disciplines is also inspiring. One of my graduate students recently entered the field of forensic science. At the Netherlands Forensic Institute, I developed a model for quantifying the strength of proof when a partial DNA profile is found at a crime scene. Students of applied mathematics acquire thorough knowledge of mathematics and learn to apply it to real-life problems. Our students are often complimented by their employers for their problem-solving attitudes, mathematical creativity and programming skills.
**Admission requirements and application procedures**

**Dutch BSc degree**
If you hold a Dutch BSc degree closely related to the Master’s programme, you will be admitted directly. However, if your undergraduate programme is not closely related to the Master’s programme you will be required to take additional courses in what is called a bridging programme. This may be a standard programme or it may be tailored to your specific situation.

To see which Master’s programmes are open to you on completion of your bachelor’s degree from a non-technical Dutch university go to www.studychoice.nl If you completed your bachelor’s at a technical university, go to www.doorstroommatrix.nl

**International applicants**
To be considered for admission to an MSc programme you will need to meet TU Delft’s general admission requirements.

1. A University Bachelor’s degree (or proof that you have nearly completed a Bachelor’s programme) in a main subject closely related to the MSc programme to which you are applying, with good grades on the key courses.
2. A BSc Cumulative Grade Point Average (CGPA) of at least 75% of the scale maximum
3. Proof of English language proficiency:
   A TOEFL (Test of English as a Foreign Language) with an overall Band score of at least 90 and a minimum score of 21 for each section. Please note that we only accept the TOEFL internet-based test.
   An IELTS (academic version) with an overall Band score of at least 6.5 and a minimum of 6.0 for each section.
   Or proof that you have passed the University of Cambridge ‘Certificate of Proficiency in English’ with a minimum grade B or the University of Cambridge ‘Certificate in Advanced English’

For international students, the application period starts October 1 and closes at April 1. To start an MSc application, please complete the online application and pay the refundable application fee of € 100. Next, you will receive an email with the link to upload the required documents.

For more information about the application procedure and studying at TU Delft in general, go to www.admissions.tudelft.nl

**Introduction week**
All international students will be welcomed with the award-winning introduction programme. The introduction consists of a variety of workshops and projects, during which you will get to know other international students, visit the highlights of Delft and learn the ins and outs of the TU Delft campus.

After this very interesting and fun week, you will be introduced to the EEMCS faculty. During the Master Kick Off, you will receive helpful information about the Dutch education system and meet the fellow students from your programme in a variety of social and educational activities.

For further information
Please visit the webpage for all details, complete requirements, deadlines and contact information, please visit: www.am.msc.tudelft.nl

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