



# PRIME

## Updates, News & Plans

March 2021

### COURSE SCHEDULE FINALISED

Preparing slides for Q4 in week 6 and 7.

#### FEEDBACK MEETINGS

Publishing CSS results on Brightspace.

Feedback meeting in week 6 and 7.

#### PRACTICE TESTS INVITES

Invites are sent to students for the practice tests.

WK3.5 WK3.6 WK3.7 WK3.8 WK3.9 WK3.10 WK4.1 WK4.2 WK4.3 WK4.4 WK4.5 WK4.6

#### VC CHECK

VC CHECK

WK4.2 WK4.3 WK4.4 WK4.5 WK4.6

#### PRACTICE TESTS INVITES

PRACTICE TESTS INVITES

MIDTERM WEEK Q4

PRIME

FEEDBACK MEETINGS

Publishing CSS results.

Legend:

● CSS / Feedback

● Exams

● Course preparations

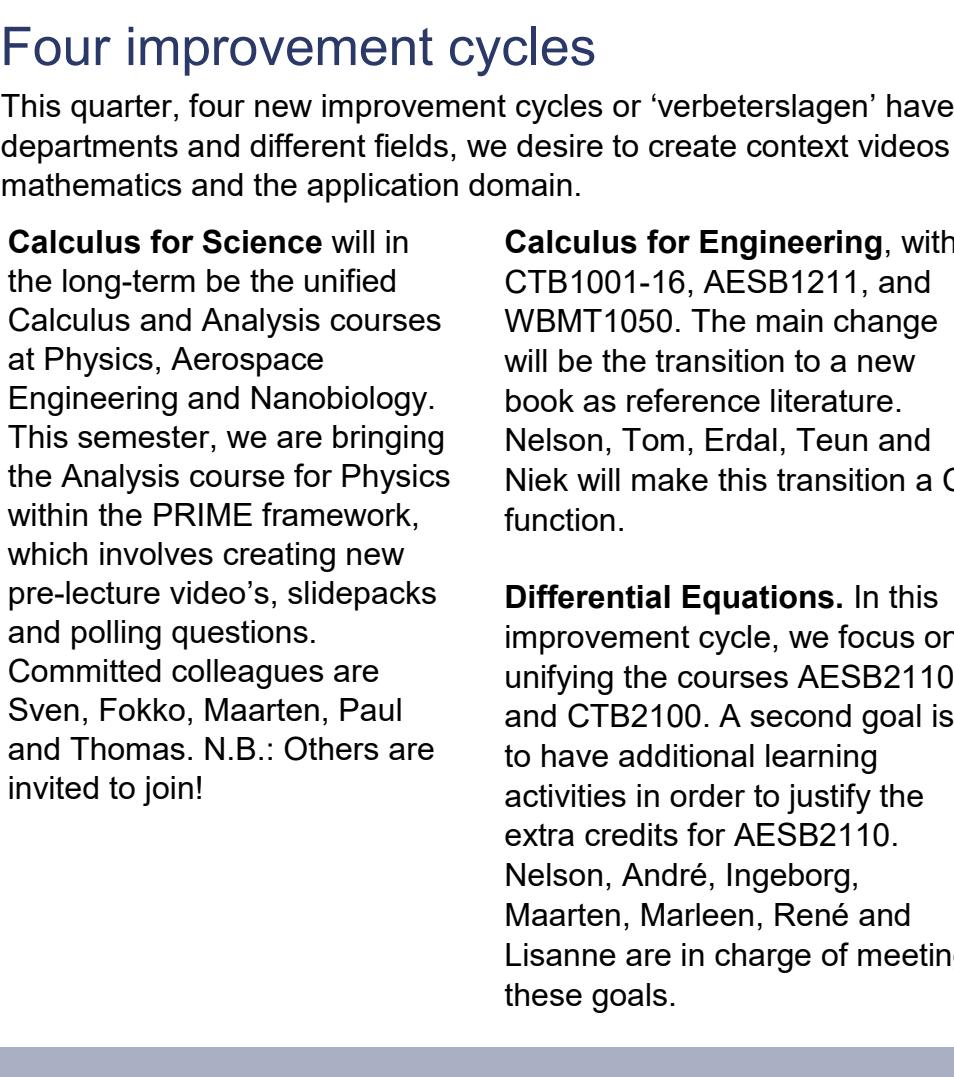
● Start/End meetings

Reminder for lecturers

12 - 16th April deadline submitting grades from wk. 3.5 in Osiris / MyTUdelft

(25 working days after the exam).

## Explore our new course materials

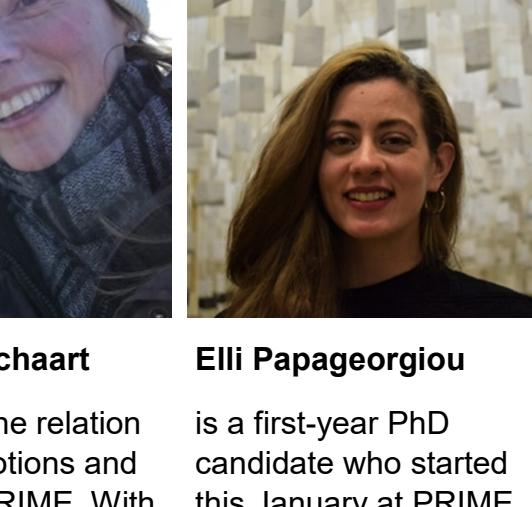


A four-part interactive animated video that you can explore and change yourself! This series is about tangent lines and explores the geometrical relation between directional derivatives and level curves.

View them [here](#) in the visuals portfolio for calculus.



A two-part context video about pile driving, to be used with Differential Equations. They are integrated in a Grasp module with additional questions. Click to watch the [first part](#) and the [second part](#).



The visuals team would like to know what you think of the new course materials. Are they useful in your teaching? How would you like to integrate them into the course? Please let us know [here](#).

Requests for new visual materials can be made through our [suggestion box](#)!

## Four improvement cycles

This quarter, four new improvement cycles or 'verbeterslagen' have started. With experts from different departments and different fields, we desire to create context videos to construct a bridge between mathematics and the application domain.

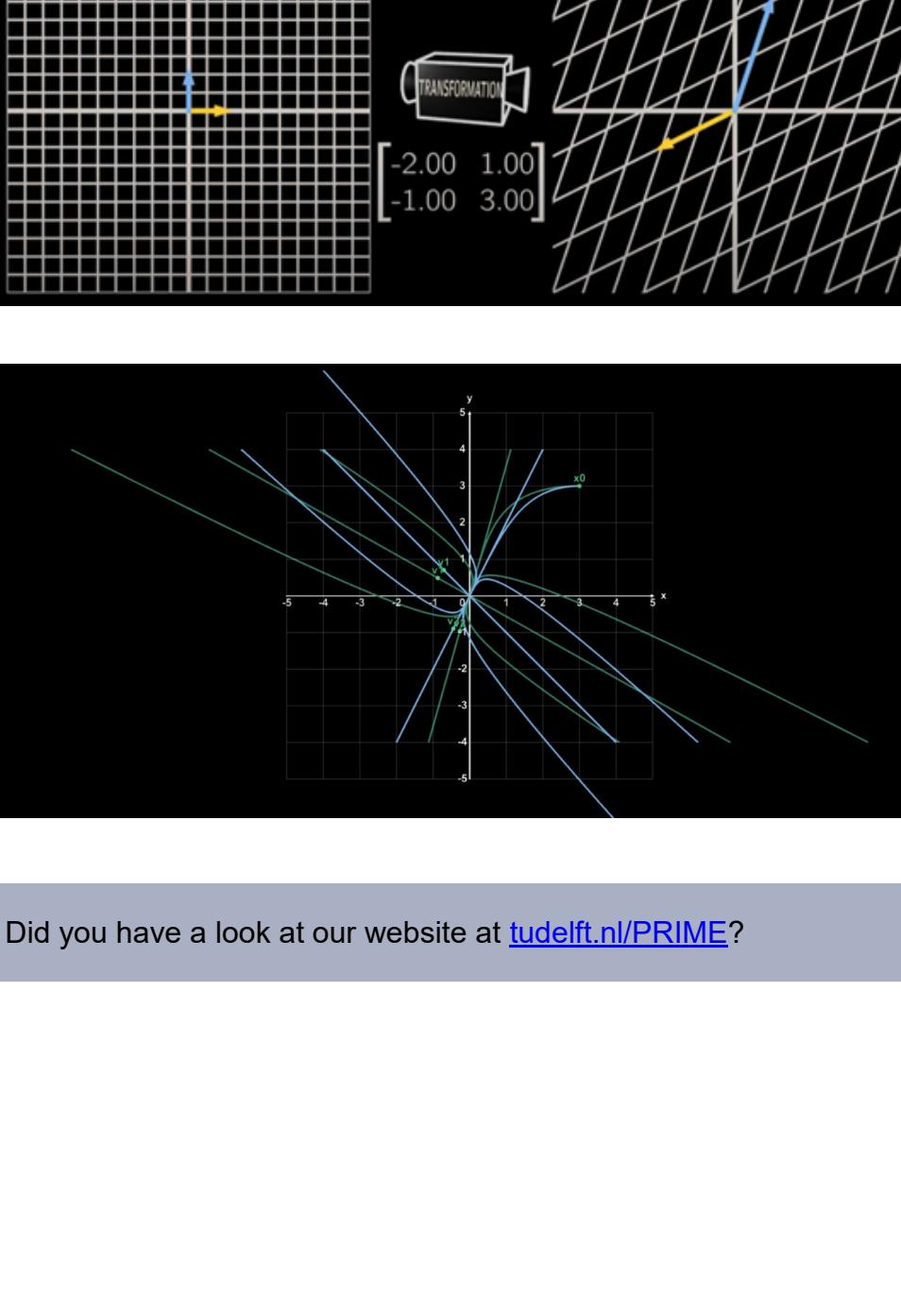
**Calculus for Science** will in the long-term be the unified Calculus and Analysis courses at Physics, Aerospace Engineering and Nanobiology. This semester, we are bringing the Analysis course for Physics within the PRIME framework, which involves creating new pre-lecture video's, slidepacks and polling questions. Committed colleagues are Sven, Fokko, Maarten, Paul and Thomas. N.B.: Others are invited to join!

**Calculus for Engineering**, with CTB1001-16, AESB1211, and WBMT1050. The main change will be the transition to a new book as reference literature. Nelson, Tom, Erdal, Teun and Niek will make this transition a C<sup>∞</sup> function.

**Differential Equations**. In this improvement cycle, we focus on unifying the courses AESB2110 and CTB2100. A second goal is to have additional learning activities in order to justify the extra credits for AESB2110. Nelson, André, Ingeborg, Maarten, Marleen, René and Lisanne are in charge of meeting these goals.

**Probability & Statistics** is taught at several engineering faculties for a different number of ECTS credits. In this improvement cycle, we aim to identify the nucleus of the course that can be taught uniformly to all engineers. The main challenge here is to create computer assignments that can be graded for large groups of students. Committed colleagues are Marc, Marjin, J, Niek, Richard, Christophe and Thomas.

## Meet our new coordinator Nelson



Nelson was born and raised in Suriname. After his Bachelor in Mechanical Engineering, Nelson moved to Enschede to study Systems & Control. He is currently finalizing his PhD manuscript on formation control at the University of Groningen.

In Groningen, Nelson was involved in mathematics-oriented courses within the IEM Programme and at UCG. He enjoys making math accessible to students and his drive for improvements led him to apply at PRIME.

Nelson's current focus at PRIME is on the identification and implementation of enhancements for courses on Calculus and Differential Equations.

Out of office, Nelson likes to [take pictures](#) and read non-fiction books. In less socially distanced times, you may find him using his cinema subscription to the fullest.

## Meet the PRIME research team

A multidisciplinary team of researchers is working together to investigate interfaculty mathematics education within PRIME. Here are four members of the research team!



**Laura Menschaart** researches the relation between emotions and learning in PRIME. With a background in neuropsychology, she integrates a bio-psychological perspective with educational and social contexts. She is especially interested in the relation between self-regulated learning and achievement emotions, and how this affects academic performance. Click [here](#) for a blogpost that she has written.

**Elli Papageorgiou** is a first-year PhD candidate who started this January at PRIME. Her investigation centers on the concept of student engagement and its operationalization in blended learning. She is also interested in the relations between student engagement, psychosocial characteristics, and academic achievement. Through her research she aims to identify mechanisms that facilitate and sustain learning.

**Jacqueline Wong** is a postdoctoral researcher in PRIME with a research background in student motivation and self-regulated learning in online learning environments. Her current research focuses on examining learning strategies that students use and how to better support students to become more effective learners. Click [here](#) for her latest publication.

**Nathalie van der Wal** is an applied mathematician with a PhD in innovative mathematics in tertiary education. As a postdoc within the PRIME research team, she conducts studies on the transfer of mathematics in engineering courses and the effect of on-campus versus online education on study-success.

## Meet our new lecturer Dani



Dani was raised in Arbúcies, in between Barcelona and the Pyrenees. In the last 10 years Dani has been teaching and researching mathematics and programming at various universities in Barcelona, North Carolina, Los Angeles and Ohio.

Dani liked teaching immediately when he started in 2011, but only found that it was indispensable to him after taking a job which involved little teaching. While working on high-performance computer clusters was interesting, Dani missed teaching so much that he took up a part-time lecturer position on the side within one year, and he has never stopped teaching since.

This academic year, Dani has started teaching at DIAM. He has mainly met colleagues in person during Q1 and while grocery shopping. Dani is therefore looking forward to coffee breaks together with colleagues and to meeting students in person. Perhaps these will be in Dutch, as Dani is starting his Dutch language course in April.

Did you have a look at our website at [tudelft.nl/PRIME](http://tudelft.nl/PRIME)?

An animation about the geometric interpretation of linear transformations from R<sup>2</sup> to R<sup>3</sup> and back.

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START & END MEETINGS In week 9 and 10.

BRIGHTSPACE SET UP FOR Q4 PRIME will set up Brightspace for Q4 in week 8, 9 and 10.

START Q4

EXAM PREPARATIONS Announcement Draft on Brightspace. Practice test and exam preparations.

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WK9 & 10 FINAL EXAM WEEK Q3 Live Support active during exams.

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FEEDBACK MEETINGS Publishing CSS results.

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EXAMS

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