

## Mathematics Refresher course 2019

1. All information is available at <https://goo.gl/FQhbQ6> .
2. Monday 14 January, pre-test
  - Report 16:00 (**15:30 if possible!**) in the venues as indicated (see list below).
  - Write test (1.5 hours, multiple choice).
  - Need pen, pencil (preferable HB) and eraser. No calculator.
  - Will be finish at 17:45.
  - Students enrolling for the programmes on the list, have to write the test.
  - The test is a screening test determining who is obliged to attend the course. Everybody that achieves less than 80% for the test, is obliged to attend the course. Anybody else may attend the course. If a student decides at a later stage to enrol for one of the programmes on the list, he/she may just report for the course at any time. Contact any of the lecturers involved (see information sheet).
  - Results of the test will be available Wednesday morning 16 January on the notice boards of E8 and electronically at <https://goo.gl/FQhbQ6> .
  - Test is a diagnostic test testing the students' comprehension of mathematics.
3. Venues E8: all English speaking students – G34; Ingenium – G42; Scientae- G01; Ad Vivendum – K41; BSV – K40; Viviente – K40; Cuvinte – G01; Educo – G41; alle ander K40
4. Students appointed by the Admission office or Faculty Manager to attend the course for possible admission.
  - These students will receive an (electronically) written or spoken notice form the responsible faculty manager informing them to attend the course in order to get admission for a certain program.
  - The students will also be informed about the mark they should achieve in the post test.
  - These students are therefore supposed to know that they have to attend the course and what they should achieve for the post test.
5. Tuesday 15 January
  - Sessions is compulsory for all students.
  - Registration for course.
  - Workbooks handed out.
  - First work session takes place.
6. 16, 17, 18, 19, 22, 23, 24, 25 January
  - Sessions compulsory as indicated on results of pre-test.
  - Attendance will be monitored during all sessions.
  - The time indications of the R&O program will be followed strictly.
  - Students should preferable go to bed early during the course to ensure that they get as much as possible out of the course.
7. 26 January, post test
  - Compulsory for all students registered for the course.
  - Report 14:00 in the same venue where the course was attended.
  - Bring a pencil (HB) and eraser. Multiple choice test of an hour and a half.
  - Should be finish at 15:30.
  - Results of the test will be made available Monday afternoon 28 January on the notice boards of E8 and electronically at <https://goo.gl/FQhbQ6> ..
  - Except for students whom had to do the course in order to get admission for certain programmes, the results of the test have no authority in the sense that a person who failed the test can be refused admission to a program for which he/she has already enrolled for. It only gives the students an indication of the quality of their mathematics. If they have not performed well in test, they have to rethink why and if they are enrolling for the correct programme.
  - Students who enrolled or transferred at a late stage for programmes on the list and who have not attend the course, will have to put in extra effort during the semester to ensure that they keep up with the work and have to approach lecturers for help,.
8. Aim of the course
  - To help first years to pass their mathematics. They struggle with the fast pace, the large quantity of work and extra help is not as readily available as at school.
  - Work as done at school, is revised and new concepts are discussed. These concepts are repeated during the course of the year, but then they will understand it easier since it has already been presented during the course.
9. Implications for students who fail mathematics in their first year.
  - MTHS111/121 is a prerequisite for many other subjects, especially students who have chemistry, biochemistry, physics, mathematics, applied mathematics and statistics and engineering students. These students' study time is prolonged by at least one year if they fail their mathematics. In the case of the engineering students, they can only proceed with two modules in their second year. IT IS VERY IMPORTANT THAT THEY PASS MATHEMATICS THE FISRT TIME.

Students admitted to the following programs have to attend the refresher course:

- Faculty of Engineering (ASA Ingenium) (E8 G42, English E8 G34)
  - Chemistry (7CG K01 - I421P)
  - Chemistry en Mineral Processing (7CG K02 - I422P)
  - Electrical en Electronics (7CN K01 - I423P)
  - Computer en Electronics (7CH K01 - I424P)
  - Electromechanical (7CL K01 - I425P)
  - Mechanical (7CJ K01 - I426P)
  - Industrial (7CK K01 - I427P)
- Faculty of Natural Sciences
  - ASA Scientae E8 G01, English E8 G34
    - Chemistry and Physics (2FF H05 - N301P)
    - Chemistry, Mathematics and Applied Mathematics (2FF H22 - N301P)
    - Physics and Mathematics (2FF H23 - N301P)
    - Physics and Applied Mathematics (2FF H24 - N301P)
    - Physics and Computer Science (2FF H25 - N301P)
    - Computer Science and Statistics (2FF H26 - N301P)
    - Computer Science and Mathematics (2FF H09 - N301P)
    - Computer Science and Economics (2FF H28 - N301P)
    - Mathematics and Economics (2FF H29 - N301P)
    - Geography and Applied Mathematics (2FF H30 - N301P)
    - Statistics and Mathematics (2FG H02 - N301P)
    - Mathematics (2FG H01 - N301P)
    - Quantitative Risk Management (2FT H01 - N301P)
    - Financial Mathematics (2FS H01 - N301P)
    - Business Analytics (2FR H01 - N301P)
    - Actuarial Science (2FQ H01 - N301P)
    - Information Technology and Computer Science (2DX H01 N302P) if MTHS111 is elected
  - ASA Ad Vivendum (E8 K41, English E8 G34)
    - Biochemistry and Chemistry (2FF H06 - N301P)
    - Microbiology and Biochemistry (2DK H11 - N301P)
    - Botany and Biochemistry (2DK H02 - N302P)
    - Zoology and Biochemistry (2DK H07 - N302P)
    - Chemistry and Physiology (2DK H06 - N302P)
    - Microbiology and Chemistry (2DJ H10 - N301P)
    - Botany and Chemistry (2DJ H03 - N302P)
    - Zoology and Chemistry (2DJ H04 - N302P)
    - Geology and Chemistry (2DJ H07 - N302P)
    - Geography and Computer Science (2DJ H14 - N301P)
  - ASA PSA (E8 K40, English E8 G34)
    - Urban and Regional Planning (2FE K01 - N401P)
- Faculty of Health Sciences (ASA Viviente) (E8 K40, English E8 G34)
  - Physiology and Biochemistry (8DJ H01 - G301P)
- Faculty of Arts (ASA Cuvinte) (E8 G01, English E8 G34)
  - Any BA with Mathematics as elective
- Faculty of Education Sciences (ASA Educo) (E8 G41, English E8 G34)
  - BEd Snr/FET with Mathematics as a specialisation subject (4BN J01/03/04/07/08/13/14)
  - BEd Snr/FET Mechanical, Electrical and Civil Technology education (4BN J17/18/19)
- Students appointed by the Admission office or Faculty Manager to attend the course for possible admission (E8 K40, English E8 G34)