

Mathematics Refresher course 2018

1. All information is available at <https://goo.gl/FQhbQ6>.
2. Tuesday 16 January
 - Report 8:00 in the foyer of E8.
 - Complete the information sheet and write test (1 hour, multiple choice).
 - Need pen, pencil (preferable HB) and eraser. No calculator.
 - Will be finish at 10:00.
 - Students that enrolled or want to enrol 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).
 - Test is a diagnostic test testing the students' comprehension of mathematics.
3. Names of persons who are obliged to attend the course.
 - Should be available by Wednesday 17 January at 8:00.
 - The list of names will be put up in the foyer of E8.
 - The list will also be available at <https://goo.gl/FQhbQ6>.
4. 17, 20, 27, 29-31 January, 1 February
 - A list indicating where students have to report, will be distributed with the list of marks.
 - List of venues will be put up in the foyer of E8.
 - The list will also be available at <https://goo.gl/FQhbQ6>.
 - Hostels will be divided into the same venue as far as possible.
 - There will be at least one venue where the course will be presented in English.
 - 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.
5. 2 February, test
 - Report 10:00 in the same venue where the course was attended.
 - Bring a pencil (HB) and eraser. Multiple choice test of an hour.
 - Should be finish at 13:00.
 - Results of the test will be made available to the students during the first week of class.
 - 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 the mathematics. If they have not performed well in test, they have to rethink why and if they are enrolling for the right 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,
6. 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 so 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.
7. 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 FIRST TIME.**

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

- Faculty of Engineering (I103P, I104P, I203P, I204P, I205P, I303P, I304P)
- Faculty of Natural Sciences
 - Physical and Chemical Sciences
 - Chemistry and Physics (N151P)
 - Chemistry, Mathematics and Applied Mathematics (N152P)
 - Physics and Mathematics (N154P)
 - Physics and Applied Mathematics (N155P)
 - Biochemistry and Chemistry (N174P)
 - Chemistry and Physiology (N177P)
 - Biochemistry and Physiology (N179P)
 - Computer and Mathematical Sciences
 - Physics and Computer Science (N153P)
 - Computer Science and Statistics (N156P)
 - Computer Science and Mathematics (N157P)
 - Statistics and Mathematics (N158P)
 - Mathematics (N159P)
 - Computer Science and Economics (N175P)
 - Mathematics and Economics (N176P)
 - Information Technology and Computer Science (N150P)
 - Environment- and Biological Sciences
 - Botany and Chemistry (N149P)
 - Zoology and Biochemistry (N160P)
 - Zoology and Chemistry (N161P)
 - Microbiology and Biochemistry (N167P)
 - Microbiology and Chemistry (N168P)
 - Botany and Biochemistry (N170P)
 - Geology and Chemistry (N180P)
 - BWI
 - Quantitative Risk Management (N134P)
 - Financial Mathematics (N135P)
 - Data mining (N136P)
 - Actuarial Science (N137P)
 - Urban and Regional Planning (N183P)
 - Information technology and computer science (N150P) if MTHS111 is taken
- Faculty of Health Sciences
 - Physiology and Biochemistry (G301P)
 - Psychology and Computer and Information Systems (G305P)
 - Psychology and Mathematics (G306P)
- Faculty of Arts
 - Mathematics and History (L329P)
 - Ethics, Philosophy and Mathematics (L338P)
 - Language Technology with Computer Science (L425P)
 - Any BA with Mathematics as choice
- Faculty of Economical Sciences
 - Economics, Risk management and Investment management (E342P)
- Faculty of Education Sciences
 - BEd Snr/FET Mathematics for Education (O194P)
- Students appointed by the Admission office or Faculty Manager to attend the course for possible admission.