

## Mathematics refresher course 2018

All bona fide first year students enrolled for programs which contain the module MTHS111, MTHS114 or MATE111 must attend the refresher course. This implies that all engineering and BMI students, but only BSc, BCom, BA students enrolled for the module MTHS111 or MTHS114, and BEd students with Education Mathematics as mayor subject, have to attend. Students who are repeating the module MTHS111 or MTHS114, BCom students enrolled for MTHS112/123, and BSc students enrolled for MTHS113, are exempted from the refresher course. Students repeating the module MTHS111 or MTHS114 are strongly recommended to attend the refresher course. See the attached list of programs that contain the module MTHS111, MTHS114 or MATH111.

### Refresher course time table

Day	Date	Time	Content
Tuesday	16 Jan 2018	8:00-10:00	Compulsory for all Test
Wednesday	17 Jan 2018	14:00-17:00	Registration and distribution of workbooks Optional if 80% or more for Algebra section in pre-test Algebra
Saturday	20 Jan 2018	9:00-12:00	Optional if 80% or more Logarithm section in pre-test The number e, Logarithms
Saturday	27 Jan 2018	14:00-16:00	Compulsory for all How contagious diseases affect me
Monday	29 Jan 2018	10:00-13:00	Optional if 80% or more for Function section in pre-test Function concept
Monday	29 Jan 2018	14:00-16:30	Compulsory for all Radian measure
Tuesday	30 Jan 2018	10:00-13:00	Compulsory for all Trigonometry
Tuesday	30 Jan 2018	14:00-16:30	Compulsory for all Trigonometry, Waves at sea
Wednesday	31 Jan 2018	10:00-13:00	Compulsory for all Absolute value and limits
Wednesday	31 Jan 2018	14:00-16:30	Compulsory for all Survive in an economic driven world
Thursday	1 Feb 2018	10:00-13:00	Compulsory for all Absolute value and limits
Thursday	1 Feb 2018	14:00-16:30	Compulsory for all Optimisation
Friday	2 Feb 2018	10:00-13:00	Compulsory for all Test

**16 January:** Before the commencement of the refresher course, during the “R&O” period, a Mathematics test will be written by all students enrolled for programmes in the attached list. The test will be written during the first session on Tuesday 16 January 2018 at 8:00-10:00 in the lecture halls of E8 (J Chris Coetzee building), Potchefstroom campus, NWU. All students have to report at the foyer of E8 (J Chris Coetzee building). Bring a HB pencil and eraser (no calculators). In the test certain basic mathematical ideas/concepts, which were taught at school and which are important for Mathematics at university level, are tested. No specific preparation for the test is necessary.

All information is available at <https://goo.gl/FQhbQ6>

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.