

## **Mathematics Refresher Course (MRC) 2021 for FNAS, FENG and FED students**

### **Aim of Mathematics Refresher Course**

The main purpose of the MRC is to help first year students to adapt to the high pace of first year mathematics and to improve the pass rate. To cope with the fast pace and the large quantity of work, the MRC is of utmost importance. Work done at school is revised and new concepts are discussed. These concepts are frequently used during the course of the year, so students will understand it easier since it has already been presented during the MRC.

The modules MTHS111/121/114/124 and MATH111/121 are prerequisites for many other mathematics and applied mathematics modules. This includes students who are enrolled for programs that have chemistry, biochemistry, physics, mathematics, applied mathematics, statistics as modules and also includes all engineering students. Students taking these modules can easily fall behind, resulting in their studies being prolonged by at least one year, if they fail their mathematics. These students' study time is prolonged by at least one year if they fail MTHS111/121/114/124/MATH111/121. In the case of the engineering students, they cannot proceed with any mathematics or/and applied mathematics modules in their second year. It is therefore very important that they pass MTHS111/121 the first time.

### **Presentation of MRC**

As soon as the NSC matric results are available, you will receive your letter of admission for the NWU. In this letter you will receive the instructions how to register for this course. The course is presented in a hybrid mode, with mainly online presentations (already starting before the Registration and Orientation period commences), as well as a limited number of contact sessions offered during the Registration and Orientation period on the Potchefstroom campus. The cost of the course is R300 and will be deducted from your student account by the end of April 2021.

You will need at least a smart phone, an exercise book of at least 192 pages, a pen or pencil, at least 50 hours and dedication to complete the course. You have time until the commencement of classes to complete the course.

The course consists of a pre- and post-test and work sessions which you have to complete online. Both the pre- and post-tests are online. You may use the contact sessions offered to help you to complete the work sessions. You will have two opportunities to write the post-test. The post-test mark will contribute to your final module mark for MTHS111/114 or MATH111.

### **Note for 2021**

The first semester for first year students will be shorter than usual. The content in the MRC repeated in the modules MTHS111/114 and MATH111 will only be discussed briefly during the presentation of the named modules. It is therefore important that you work through all the content of the MRC.

### **Students obliged to complete the MRC**

Students admitted to the following programs have to complete the MRC:

- Faculty of Engineering
  - Chemistry (7CG K01 - I421P)
  - Chemistry and Mineral Processing (7CG K02 - I422P)
  - Electrical and Electronic (7CN K01 - I423P)
  - Computer and Electronic (7CH K01 - I424P)
  - Electromechanical (7CL K01 - I425P)
  - Mechatronic (7CR K01 – I401P)
  - Mechanical (7CJ K01 - I426P)
  - Industrial (7CK K01 - I427P)
- Faculty of Natural Sciences
  - 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
- 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)
- Urban and Regional Planning (2FE K01 - N401P)
- Faculty of Health Sciences
  - Physiology and Biochemistry (8DJ H01 - G301P)
- Faculty of Arts
  - Any BA with Mathematics as elective
- Faculty of Education
  - BEd Snr/FET with Mathematics as a specialisation subject (4BN J01/03/04/07/08/13/14)
- Students appointed by the Admission office or Faculty Manager to attend the course for possible admission

### Contact us

FNAS and FENG: Mariette Hitge [mariette.hitge@nwu.ac.za](mailto:mariette.hitge@nwu.ac.za) of 018 2992579

FED: Annalie Roux [annalie.roux@nwu.ac.za](mailto:annalie.roux@nwu.ac.za) of 018 2991895