

SHORT & CERTIFICATE COURSES

**WITS PLUS**

## MATHEMATICS FOR ACCESS

Join us for our evening class *Mathematics for Access*, in weekly sessions. This is an academic **one-year short course, consisting of two separate modules**, and earns a certificate of competence upon completion of both modules.

The course is offered at the University of the Witwatersrand's Braamfontein Campus West in lecture/ tutorial/ seminar format with specialist lecturers in mathematics.

T +27 11 717 9503 / 9511 / 9519

E [shortcourses.witsplus@wits.ac.za](mailto:shortcourses.witsplus@wits.ac.za)

W [www.wits.ac.za/part-time](http://www.wits.ac.za/part-time)

### OBJECTIVES OF THE COURSE

This course aims to provide a foundational knowledge of mathematics. It aims to develop confidence in using Mathematics to solve problems. It also provides mathematical competency to students who meet the admission requirements for a specific programme but who narrowly missed the minimum Maths prerequisites.

### LEARNING OUTCOMES

Participants will gain an understanding of essential mathematical principles and develop their confidence in mathematical thinking skills and reasoning. They will be able to apply mathematical methods and techniques to computational, business and applied mathematical problems.

### TARGET AUDIENCE

This course will be of value to people who have Mathematics at matric level but need more advanced competency in their daily work. They can do this course for non-degree purposes.

It is also relevant to students who have passed mathematics at matric, but have narrowly failed to achieve the required symbol or percentage and who want to study towards a BCom degree at Wits.

### ADMISSION CRITERIA

English competency and a matriculation certificate with full exemption / university entrance, or equivalent. Applicants must have passed pure Maths at matric level or Maths Literacy with at least a B symbol. Admission will be via the submission of an application form accompanied by your matric results and or academic record (if applicable).

### STRUCTURE OF THE COURSE

The course is offered over a full year (two academic semesters). Lectures take place once a week, usually from 09:00 – 12:00 on Saturdays. This includes a tutorial session which allows for group interaction and practical application of theories and methodologies. Lectures do not take place during university recesses.

## COURSE CONTENT

It should be noted that Maths for Access is NOT an upgrade of matric mathematics. It introduces students to higher level mathematical concepts and practices.

The following is covered: The real number system, the nature of proof, algebraic expressions, exponents and logarithms, formulae, equations and inequalities, sequences, functions, limits, derivatives, analytical geometry, trigonometry and Euclidean geometry.

## COMMENCEMENT DATES

Saturdays: 09:00 - 12:00.

## WHO ARE THE LECTURERS?

Knowledgeable subject matter experts in the mathematics field.

## ASSESSMENT CRITERIA

Assessment criteria will be via a test, assignment/tutorial and a two-hour examination at the end of each semester.

You have to pass the course with 70% and higher, besides the other requirements, to be allowed to apply for a BCom degree.

Make sure that you apply before the closing date for BCom applications: for part-time 30 September and full-time is 30 November.

## FEES & METHOD OF PAYMENT

R17 250 for both modules (R8 625 per module).

The fees for all courses are the responsibility of the individual attending the course. All fees must be paid prior to registration, each term. Payment can be made by electronic payment or bank deposits. You will then need to bring in your original proof of payment to registration day, dates will be provided in the acceptance letter.

## CANCELLATION OF A COURSE

Wits Plus courses offered over one year:

- Cancellation in the beginning of the year before commencement of lectures will result in an administration fee of 15% of the course fee for Semester 1 regardless of the reason.
- Cancellation in Semester 1 after commencement of the course will result in liability 50% of the course fees regardless of the reason.
- Cancellation in Semester 2 after commencement of classes will result in liability for the full amount of the course fees regardless of the reason.
- Students who do not meet the requirements to continue in the second half of a year course will be refunded all course fees paid in advance for that semester. ICAM and parking disc fees are not refundable.

## VISITORS ACCESS

All short course participants are issued with a Visitors Access Card at a cost of ±R140. Parking disc fees also apply: arrangements need to be made with the parking office. You may park in student parking on the west campus.

## APPLICATIONS

Applications should be accompanied by a brief CV (strictly 3 pages maximum); matric certificate, other academic records of university/tertiary level study record if applicable.

Note: Wits Plus, University of the Witwatersrand, reserves the right to withdraw a course from its programme should registrations not reach viable numbers. In this event a full refund will be made. Refund requests will take a minimum of 30 working days to be processed after all documentation has been received.