University of Pretoria Yearbook 2022

PhD (Science and Mathematics Education) (02260754)

Department	Centre for Science Education
Minimum duration of study	2 years
Total credits	360
NQF level	10

Programme information

The programme is designed for science educators at all levels who wish to pursue their postgraduate studies in science education but closely allied with a scientific discipline. Science, in this context, is interpreted in its broadest sense, and includes the physical, biological and earth sciences, as well as mathematics and technology.

At the end of this programme the student will be capable of doing independent research within the values and approaches of the sciences, and their impact and role in the broader social and economic environment with an educational focus.

For admission to the PhD in Science and Mathematics Education, the programme composition of the master's degree must have included a reasonable research component that led to a dissertation.

Applicants seeking admission in the PhD Science and Mathematics Education programme should indicate their particular field of specialization, i.e. Science Education or Mathematics Education. For Science Education, please refer to the Centre for Science, Mathematics and Technology Education. For students specialising in Mathematics Education, the contact department is the Department of Mathematics and Applied Mathematics.

Admission requirements

1. MSc (Mathematics) degree **or** MSc (Applied Mathematics) degree **or** MSc (Mathematics Education) degree **or** relevant master's degree
2. Proven expertise in education research methodology and statistical methods
3. Additional agreed study assignments and/or an examination may be required

Curriculum: Year 1

Students choose between SCE 990 and WTW 993.

Core modules

Thesis: Science education 990 (SCE 990)

Module credits	360.00
NQF Level	10
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Centre for Science Development
Period of presentation	Year

Thesis: Mathematics Education 993 (WTW 993)

Module credits	360.00
NQF Level	10
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Year

Curriculum: Final year

Students choose between SCE 990 and WTW 993.

Core modules

Thesis: Science education 990 (SCE 990)

Module credits	360.00
NQF Level	10
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Centre for Science Development
Period of presentation	Year

Thesis: Mathematics Education 993 (WTW 993)

Module credits	360.00
NQF Level	10
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Year