

# 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)

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

#### Thesis: Mathematics Education 993 (WTW 993)

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

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.