



## Basic Potato Pathology

Presented by the Department of Plant and Soil Sciences,  
University of Pretoria

The **Basic Potato Pathology** short course is currently the only course of its kind being presented in Southern Africa. This blended course will begin with an introduction to basic plant pathology. Thereafter, the disease cycles, epidemiology and management of the most important potato diseases will be discussed. This is a two-day blended course consisting of an online component and two four-hour virtual classes covered over the two days. This course structure will allow delegates to interact with a world-renown expert in potato pathology.

### Course content

- Introduction to plant pathology
- Pathogen types
- The disease triangle
- Principles of epidemiology
- Integrated Pest Management and disease control
- Fungal diseases of potatoes
- Bacterial diseases of potatoes
- Viral diseases of potatoes

### Learning outcomes

After successfully completing this course, you will

- Know the basic principles of plant pathology.
- Know the difference between fungal, viral and bacterial diseases.
- Understand disease cycles and their use in disease management.
- Be able to identify the potato diseases discussed in the course.
- Be able to recommend control or management options for each disease.
- Know the climatic conditions under which each disease develops.

### Who should enrol?

This course is ideal for any person in the Potato industry:

- Seed certification officials
- Growers
- Farm Managers
- Fungicide Sales Reps
- Extension staff
- Technical advisors.

### Course fees

#### R3 500.00 per delegate (VAT incl.)

Course fees include all online course material.

Course fees must be paid in full 14 days prior to course start dates. Proof of payment can be submitted to [enrolments@enterprises.up.ac.za](mailto:enrolments@enterprises.up.ac.za).

### Admission requirements

Prospective delegates should at least have relevant work experience/prior knowledge/qualifications needed to enrol.

### Accreditation and certification

Enterprises University of Pretoria (Pty) Ltd is wholly owned by the University of Pretoria. As a public higher education institution, the University of Pretoria functions in accordance to the Higher Education Act 101 of 1997. Enterprises University of Pretoria offers short courses on behalf of the University and these short courses are not credit-bearing, and do not lead to formal qualifications on the National Qualifications Framework (NQF) – unless stated otherwise. Delegates who successfully complete a short course and comply with the related assessment criteria (where applicable) are awarded certificates of successful completion and/or attendance by the University of Pretoria.

### Registration and enrolments

#### Course coordinator

Dolly Mabuza

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#### Course leader

Prof Jacquie van der Waals

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*Shifting knowledge to insight*



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## Course Programme

| Day 1  |
|--|
| <b>8h00 – 10h00 (SA time): Listening to online lectures, previously recorded and uploaded</b>  |
| <ul style="list-style-type: none"> <li>• Introduction to plant pathology</li> <li>• Diagnosis of diseases</li> <li>• Foliar diseases               <ul style="list-style-type: none"> <li>○ Early blight and brown spot</li> <li>○ Late blight</li> <li>○ Botrytis grey mould</li> <li>○ PVY</li> <li>○ PRLV</li> </ul> </li> <li>• Wilt diseases               <ul style="list-style-type: none"> <li>○ Fusarium wilt</li> <li>○ Verticillium wilt</li> <li>○ Blackleg / aerial stem rot / soft rot</li> <li>○ Ralstonia wilt (bacterial wilt)</li> </ul> </li> </ul> |
| <b>10h30 – 12h30: Discussion of lectures</b>   |
| Day 2  |
| <b>8h00 – 10h00 (SA time): Listening to online lectures, previously recorded and uploaded</b>  |
| <ul style="list-style-type: none"> <li>• Tuber diseases               <ul style="list-style-type: none"> <li>○ Black dot and silver scurf</li> <li>○ Fusarium dry rot</li> <li>○ Root knot nematode</li> <li>○ Common scab</li> <li>○ Black scurf / elephant hide / corky cracks</li> <li>○ Powdery scab</li> </ul> </li> </ul>  |
| <b>10h30 – 12h30: Discussion of lectures</b>   |

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