

# Fruit Fly 101: Basic Training in Fruit Fly Identification

Department of Conservation Ecology and Entomology Stellenbosch University 20 - 24 November 2023

# Basic course (general introduction with focus on species of economic concern to South Africa)

Monday 20 November - Venue: JS Marais Room 2025

Worldy 20 November Vender 35 Wards Nooth 2025		
Time	Activity	
8:30-9:30	Introduction to Tephritidae: Economic & ecological significance (Aruna Manrakhan)	
9:30-10:30	Fruit fly monitoring (Aruna Manrakhan)	
Tea break		
11:00 - 12:30	Record keeping and databasing (Gulu Bekker); App demonstration (Anro Redelinghuis)	
Lunch break		
14:30 - 15:00	Introduction to fruit fly morphology (Pia Addison)	
15:30 - 16:30	Introduction to various morphological ID tools – APP demonstrations (Marc de Meyer)	

### **Tuesday 21 November –** Venue: JS Marais Room 2025

Time	Activity
8:30 - 9:00	Major Pest Groups occurring in South Africa & how to recognize them – theory (Pia Addison)
9:00-10:30	Introduction to molecular tools (Massi Virgilio, online & Marc de Meyer)
Tea break	
11:00 - 12:30	Ecology and Management of fruit flies (Luis Bota)
Lunch break	
14:00 - 16:30	Practical to recognize major pest groups occurring in South Africa – pictoral key

# Intensive course (focus on species of broader geographic distribution and use of multientry keys)

# Wednesday 22 November - Venue: JS Marais Room 2025

Time	Activity
9:00 – 9:30	Terminology used in morphological identification (Pia Addison)
9:30-10:30	Preservation methods (Luis Bota)
Tea break	
11:00 – 12:00	Identification of major pest species in <i>Ceratitis, Dacus,</i> and differentiation from related genera – theory (Luis Bota)
Lunch break	
14:00 - 16:30	Practical – identification fruit flies using multi-entry key

#### **Thursday 23 November -** Venue: JS Marais Room 2025

Time	Activity
9:00 - 9:30	Spatial modelling from genetic/landscape/climate data (Minette Karsten)
9:30-10:30	Practical training: how to handle sequences (Minette Karsten)
Tea break	
11:00 - 12:00	Identification major pest species in Bactrocera, Zeugodacus and differentiation from related
	genera – theory (Aruna Manrakhan)
Lunch break	
14:00 - 16:30	Practical – Identification fruit flies using multi-entry keys

# Friday 24 November - Venue: JS Marais Room 2025

Time	Activity	
9:00 - 9:30	Larval identification – basic introduction (Welma Pieterse)	
9:30-10:30	Other information sets available on the internet (Marc de Meyer)	
10:30 - 11:30	Discussions (all)	
Lunch break		
	Departure	