

# African Mathematical School

## Insight from Mathematical Modeling into Problems in Conservation, Ecology, and Epidemiology

### Class Schedule

#### Week One

Days	9:00-10:45	10:45-11:00	11-1:00	1-3	3-4:45
Monday	Opening Ceremony	Break	Introduction to modeling	Lunch	Introduction to modeling
Tuesday	Dynamical system		Dynamical system		Epidemic modeling
Thursday	Epidemic modelling (AUF)		Computational methods (AUF)		Epidemic modelling (AUF)
Friday	Dynamical system (AUF)		Stochastic Epidemic Modeling (AUF)		Dynamical system (AUF)
Saturday	Projects (ESEA)		Projects (ESEA)		Free afternoon

#### Week Two

Days	9:00-10:45	10:45-11:00	11-1:00	1-3	3-4:45
Monday	Optimal control theory (UCAD 2)	Break	Computational methods(UCAD 2)	Lunch	Optimal control theory (UCAD 2)
Tuesday	Optimal control theory(AUF)		Stochastic Epidemic Modeling(AUF)		Project(AUF)
Wednesday	Numerical Methods for optimal control(AUF)		Epidemic modelling (AUF)		Free afternoon
Thursday	Numerical Methods for optimal control(AUF)		Projects(AUF)		Projects(AUF)
Friday	Presentations (UCAD 2)		Presentations (UCAD 2)		Closing (UCAD 2)