eLearning Modules

The development of these teaching and learning modules were developed as an initiative of the Generation Challenge Programme.

Plant Breeding Concepts & Methods Course
Visit Course Page
This course is a self-guided exploration of breeding theory and methods. The content is geared towards scientists and students with some background in biology, genetics, molecular markers and plant breeding. Additional resources are provided throughout the course to assist those with limited background knowledge.

Marker-Assisted Breeding Course
Visit Course Page
The course is a self-guided course exploration of marker-assisted breeding theory and methods. The course is geared towards scientists and students with a good background in biology, genetics, molecular markers and plant breeding. Additional resources are provided throughout the course to assist those with limited background knowledge.

Comparative Genomics Course
Visit Course Page
This is a self-guided course exploring comparative genomics. The course is geared towards scientists and students with an awareness of DNA structure, recombinant DNA technologies, DNA sequencing, and plant breeding. The course is intended for plant breeders, molecular biologists, and other plant scientists who are associated with, but not fully engaged in, genomics research – in the hope of providing them information to improve understanding of current research in the field and the implications.

The Integrated Breeding Series of courses are under development, but some learning materials are available at Plant & Soil Sciences e-Library Integrated Breeding Series.

Plant Breeding e-Learning in Africa Website (PBEA)
Visit Course Materials Page (Note: you will need to create an account on their site to access the course content)
Building on Iowa State University’s expertise with online plant breeding education, PBEA e-modules can be used in curricula to train African students in management of crop breeding programmes for public, local, and international organisations. Collaborating with faculty at Makerere University in Uganda, University of KwaZulu-Natal in South Africa, and Kwame Nkrumah University of Science and Technology in Ghana, the PBEA team creates e-modules that hone essential capabilities with real-world challenges of cultivar development in Africa, using Applied Learning Activities.