

16:765:510 Advanced Plant Genetics (3 credits)

Normally Offered:

Fall of even numbered years

Instructor:

Dooner, Jelenkovic, Kerstetter, Michael, Maliga

Pre-requisites and other registration restrictions:

Basic course in Genetics is absolutely essential; course in Molecular Biology is strongly recommended.

Format:

Two 80 min lectures.

Description:

An advanced course in plant genetics intended to impart students in the molecular track of the Plant Biology Graduate Program with a balanced knowledge of classical and molecular genetics of higher plants, which they can then apply in their research.

Topics

Classical and molecular genetics of higher plants, including cytogenetics, breeding systems, linkage analysis, recombination, gene and chromosomal mutations, epigenetics, transposons, map-based cloning, and genomics

Examinations

2 midterm exams and a final exam

Other requirements:

No text book. Required & supplementary readings from articles or selected book chapters.

Grading

Based on performance in midterm (60%) and final (40%) exams.