

# Plant Biology (PLBIO)

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**Courses primarily for graduate students, open to qualified undergraduates:**

**PLBIO 512. Plant Growth and Development.**

(Cross-listed with MCDB, GDCB). (2-0) Cr. 2. S. *Prereq: BIOL 330 or a course in developmental biology; GDCB 545 or BBMB 404, BBMB 405 or GDCB 520*  
Plant growth and development and its molecular genetic regulation. Hormone biosynthesis, metabolism, and action. Signal transduction in plants.

**PLBIO 513. Plant Metabolism.**

(Cross-listed with GDCB). (2-0) Cr. 2. F. *Prereq: BIOL 330, PHYS 111, CHEM 331; one semester of biochemistry recommended*  
Photosynthesis, respiration, and other aspects of plant metabolism.

**PLBIO 545. Plant Molecular Biology.**

(Cross-listed with MCDB, GDCB). (3-0) Cr. 3. Alt. F., offered 2011. *Prereq: BIOL 314, BIOL 330*  
Organization and function of plant nuclear and organelle DNA; regulation of gene expression. Methods of generating novel genetic variation. Impact of plant biotechnology on agriculture.

**Courses for graduate students:**

**PLBIO 696. Research Seminar.**

(Cross-listed with AGRON, BBMB, GDCB, HORT, FOR). Cr. 1. Repeatable. F.S.  
Research seminars by faculty and graduate students. Offered on a satisfactory-fail basis only.

**PLBIO 699. Research.**

Cr. arr. Repeatable.