Plant Stress Biology Program Area  
Summary of the MS Degree Requirements

To satisfy the course requirements for a Masters degree, a student must complete:
◆ A minimum of 30 credit hours.
◆ 15 credit hours (towards the 30 credit hour requirement) must be from courses numbered at the 8000 or 9000 level. A maximum of 12 of these credit hours can be satisfied by research (Plnt S 8090).
◆ 12 credit hours (towards the 30 credit hour requirement) can be satisfied by research (Plnt S 8090), readings (Plnt S 7965 or 7970) and problems courses.

The core requirements for the Masters degree in the Plant Stress Biology program are:
◆ Two Entry Level courses (to be completed in the first year).
  Choose one course from:
  Plnt S 7315 Crop Physiology (3 credits)
  Plnt S 7320 Plant Physiology (3 credits)
  Choose one course from:
  Plnt S 7500 Biology and Pathogenesis of Plant-Associated Microbes (lab course; 4 credits)
  Plnt S 8505 Introduction to Plant Stress Biology (2 credits)
◆ Plnt S 8010 Professionalism and Ethics (2 credits)
◆ Plnt S 8530 Research with Plant Stress Agents (3 credits)
◆ Participation in the student seminar series
  Plnt S 9087 (1 credit)
  Plnt S 7087 (2 credits - Must enroll twice)
◆ Plnt S 8090 Thesis Research (1 - 10 credits per semester)
◆ Elective Courses to fulfill the 30 credit hour minimum. Selections include:
  Bio S 8300 Advanced Plant Genetics (3 credits)
  Bio S/Plnt S 8310 Fungal Genetics and Biology (3 credits)
  Plnt S 8330 Molecular Breeding (3 credits)
  Plnt S 8362 Introduction to Plant Metabolism (2 credits)
  Plnt S 8365 Introduction to Molecular Cell Biology (2 credits)
  Forest 8620 Plant-Water Relations (3 credits)
  Plnt S 8650 Ecological and Evolutionary Genomics (2 credits)
  Plnt S 9415 Advanced Plant Physiology (1-3 credits)
  Plnt S 9420 Transport and Metabolism of Plant Nutrients (3 credits)
  Plnt S 9440 Applied Quantitative and Statistical Genetics (3 credits)
  Plnt S 9540 Genetics of the Plant-Microbe Interaction (3 credits)
  Plnt S 9810 Insect Ecology (3 credits)
◆ Additional Entry Level courses:
  Forest 7340 Tree Physiology
  Plnt S 7400 Plant Anatomy
Bio S 3210  Plant Systematics

During the Fall and Winter semesters, MS students must enroll for 9 credits to be considered a full time student.

Teaching Requirement: Students must complete a graduate teaching experience for one semester or participate in an extension program approved by the Director of Graduate Studies. Students can fulfill the teaching experience by assisting in courses outside of the DPS as well as in undergraduate and graduate level DPS courses. For more information see "Student Plan for Teaching Experience."

Students with a strong interest in teaching may be interested in pursuing a minor in College Teaching. Details for this program can be found at:
http://gradschool.missouri.edu/programs/minor-college-teaching/degree-requirements/

For a more detailed explanation of degree requirements, see the Graduate Student Handbook.