MEPS 291 Research  
Credits 1 to 4. 1 to 4 Other Hours.  
Research conducted under the direction of faculty member in molecular and environmental plant sciences. May be repeated 3 times for credit.  
Prerequisites: Freshman or sophomore classification and approval of instructor.

MEPS 313 Introduction to Plant Physiology  
Credits 3. 3 Lecture Hours.  
General course dealing with principal life processes of higher plants; influence of environmental factors on these processes. Agricultural and ecological significance of life processes of plants.  
Prerequisites: BIOL 111; CHEM 222 or CHEM 227.

MEPS 316 Introduction to Theory and Practice of Plant Physiology  
Credits 3. 2 Lecture Hours. 3 Lab Hours.  
Theory of plant physiology related to purposeful practices for improving plant adaptation, productivity and quality and for protecting and remediating environments in agriculture; laboratory experiments of physiology of plant structure, components and culture; water relations and stress; nitrogen and mineral nutrition; gas exchange; hormonal regulation.  
Prerequisites: BIOL 101; CHEM 101; junior or senior classification.

MEPS 411 Biotechnology for Crop Improvement  
Credits 3. 3 Lecture Hours.  
Use of biotechnology to improve agricultural, horticultural and forest crops; techniques and methods used and case studies where biotechnology has been used to alter traits such as pathogen resistance, protein or oil consumption, ripening, fertility and wood properties.  
Prerequisite: BIOL 111 or equivalent.  
Cross Listing: GENE 411 and SCSC 411.

MEPS 485 Directed Studies  
Credits 1 to 4. 1 to 4 Other Hours.  
Individual problems or research not covered by other coursework. Report required.  
Prerequisites: Junior or senior classification and prior approval of instructor or department head.

MEPS 489 Special Topics in...  
Credits 1 to 4. 1 to 4 Lecture Hours.  
Selected topics in an identified area of plant physiology. May be repeated for credit.

MEPS 491 Research  
Credits 1 to 4. 1 to 4 Other Hours.  
Research conducted under the direction of faculty member in molecular and environmental plant sciences. May be repeated 3 times for credit.  
Registration in multiple sections of this course are possible within a given semester provided that the per semester credit hour limit is not exceeded.  
Prerequisites: Junior or senior classification and approval of instructor.