MEPS-MAJOR, MOLECULAR & ENVIRONMENTAL PLANT SCI (MEPS)

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 101; CHEM 102 or CHEM 104; CHEM 222 or CHEM 228.

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/GENE 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 113 or equivalent.
Cross Listing: GENE 411/MEPS 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.