

Curriculum Map Plant Science Department College of Agriculture

Objective- Students will have knowledge of the biotic and abiotic factors that affect plant growth and development.

I=outcome is introduced **D**=outcome is practiced **M**=Outcome is Mastered **A**=Evidence Collected

| Course (number and title) | SLO #1: <i>Describe</i> California's water resource base and water cycle. Recognize variations in consumptive use patterns in specific plant series (eg. landscape turfgrass, irrigated crops, rangeland, etc.) | SLO #2: <i>Identify</i> basic concepts of plant physiology in relation to climatic variables (eg. temperature, day length, air quality, etc.) | SLO #3: <i>Describe</i> basic soil physical concepts (eg. <i>morphology, texture, structure</i>), chemical concepts (eg. <i>salinity, Ph, nutrient availability</i>) and measures of soil productivity (eg. <i>organic matter, tilth, permeability</i>) | SLO #4: <i>Recognize and identify negative components (eg. weeds, diseases, insects, pests) and positive components (eg. biological N fixation, composting, soil microbes) in plant and soil systems.</i> | SLO#5: <i>Recognize the natural genetic variability within and between species of plants. Describe basic concepts of genomics, plant biotechnology and plant improvement.</i> |
|--|--|--|---|--|---|
| PLT 131 Landscape Horticulture | | I | I | I | I |
| PLT 132 Plant Propagation | | I | | | |
| PLT 133 Agricultural Cropping Systems | I | I | I | I | I |
| PLT 231 Basic Soil Science | I | I | D | D | |
| PLT 232 Irrigation & Water Mgmt | I | | | | |
| PLT 233 Intro to Arthropods | | | | I | |
| PLT 301 Investigative Techniques in Plant Science | | D | D | D | D |
| PLT 302 Technology Innovations in Plant Science | D | D | | | M/A |
| PLT 331 (weeds) Weeds & Weed Control | | | | M/A | |
| PLT 332 (fertility) Soil Fertility & Fertilizers | | | D | D | |
| PLT 333 (IPM) Integrated Pest Management | | | | M/A | |
| PLT 401 Crop Ecology | M | M | M | M | M |

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| PLT 411 Environmental Toxicology | M | M | M | | |
| PLT 441 Internship or | M | | M | M | M |
| PLT 461 Senior Project | M | | M | M | M |
| PLT 463 Senior Seminar | A | A | A | A | A |
| BOT 124 General Botany | | I | | | |
| BOT 323 Plant Pathology | | | | D | D |
| BOT 428 Plant Physiology | D | M | | | D |