

Guided Reading on Topics in the Ecophysiology of Desert Plants (2 credits)

001-2-2054

The course will address ecological questions regarding the control over growth, reproduction, distribution and survival of desert plants in response to their abiotic environment. During the course we will discuss three topics from the suggested. In each topic we will choose several manuscripts and discuss them.

Requirements for grading: Written report on each topic

Topics:

1. Carbon utilization
 - 1.1. Photosynthesis
 - 1.2. Respiration
 - 1.3. Photorespiration
 - 1.4. Carbon budget
2. Plant water relations
 - 2.1. Water relations of cells
 - 2.2. Water movement
 - 2.3. Water use efficiency
3. Plants under stress
 - 3.1. Adaptation and acclimation
 - 3.2. Studying multiple stresses

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